Unit One



Multiplication

Lessons of the unit

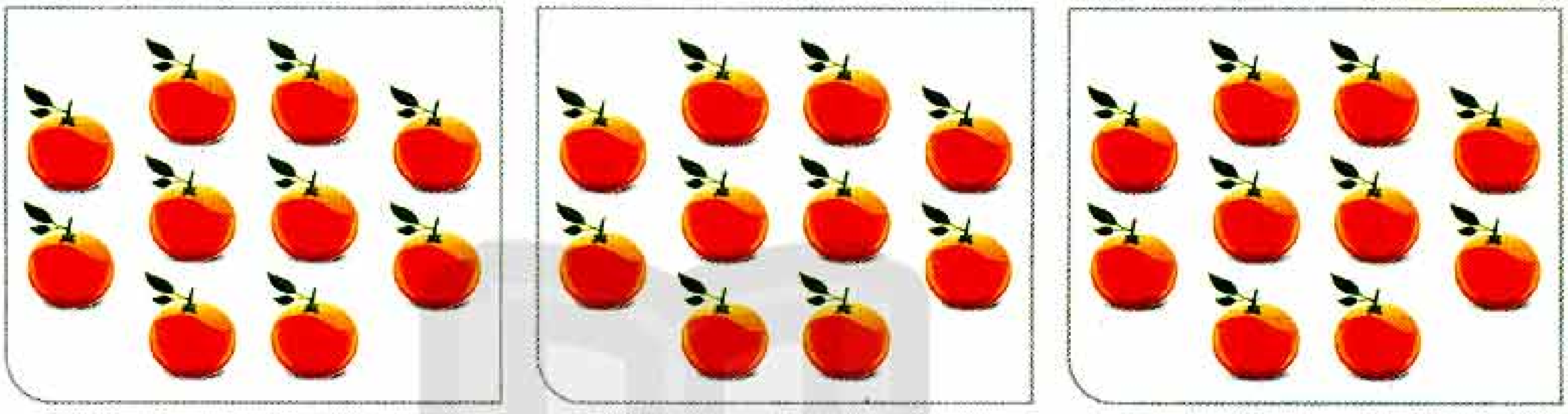
- Lesson 1: Multiplying by 10.
- Lesson 2: Multiplying by 100.
- Lesson 3: Multiplying by 1000.
- Lesson 4: Multiplying a number formed from 2 digits or more by a 1-digit number
- Lesson 5: Even numbers and odd numbers.
- Lesson 6: Dividing a number by a 1-digit number.

Lesson 1

Multiplying by 10

Notice that:

1



10 + 10 + 10

$10 + 10 + 10 = 10 \times 3 = 30$

2

Table (10)

$10 \times 1 = 10$	$10 \times 6 = 60$
$10 \times 2 = 20$	$10 \times 7 = 70$
$10 \times 3 = 30$	$10 \times 8 = 80$
$10 \times 4 = 40$	$10 \times 9 = 90$
$10 \times 5 = 50$	

3 How to multiply any number by 10:

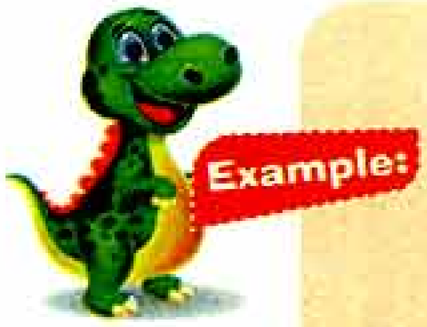
$5 \times 10 = 50$ $26 \times 10 = 260$ $100 \times 10 = 1\,000$ --- and so on.

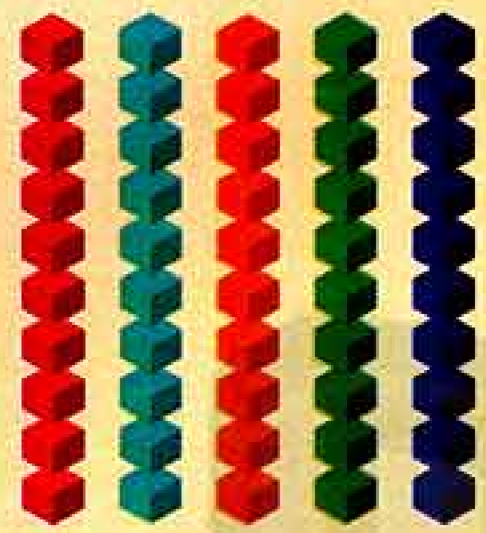
4 How to multiply any number by a multiple of 10:

$4 \times 20 = 80$ $6 \times 60 = 360$

Examples and Exercises

1 Use the figures to complete:

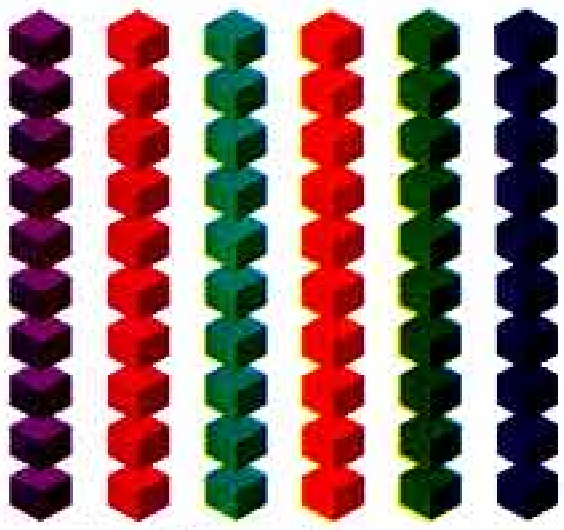




10 × 5

= 10 + 10 + 10 + 10 + 10

= 50



10 × 6

= ...... + ... + ... + ... + ... + ...

= ......

2 Complete each of the following:



6 × 10 = 60

a) 10 × .... = 20

b) 10 × .... = 80

c) .... × 10 = 90

d) .... × .... = 70

e) 10 × .... = 100

f) 8 × 20 = ...

g) 7 × 30 = ...

h) 4 × 40 = ...

i) 5 × 50 = ...

Exercise 1 Multiplying by 10

1 Complete each of the following as the example:

Example: $3 \times 10 = 30$

a .... $\times 10 = 80$

b $14 \times$ .... $= 140$

c $10 \times 7 = 4$ tens + ... tens

d $9 \times 10 = 10 +$ ....

e $12 \times 10 = (7 \times 10) + ($ .... $\times 10)$

f $20 \times 7 =$ ....

g $70 \times 8 =$ ....

h $6 \times 2 \times 5 =$ ....

i $8 \times$ .... $\times 5 = 80$

j $9 \times$ .... $\times 2 = 90$

k .... $\times 5 \times 2 = 70$

2 Choose the correct answer as the example:

Example: $4 \times 10 =$ .... $\times 4$ (4 or 5 or **10** or 100)

a $3 \times 2 \times$ .... $= 10 \times 3$ (10 or 5 or 6 or 30)

b $7 \times 60 =$ .... (760 or 402 or 420 or 670)

c $30 \times 6 =$ .... (108 or 180 or 360 or 630)

d $500 - (60 \times 4) =$ .... (260 or 300 or 620 or 206)

e $700 - (30 \times 10) =$ .... (300 or 400 or 700 or 1 000)

f $300 + (20 \times 10) =$ .... (300 or 200 or 400 or 500)

3 Find the result of each of the following as the example:



Example: 4 × 10 = 40

a	7 × 10 = ...	f	(10 × 6) – 40 = ...
b	5 × 70 = ...	g	7 × 10 + 10 × 3 = ...
c	44 × 10 = ...	h	8 × 10 – 5 × 10 = ...
d	6 × 2 × 5 = ...	i	10 × 10 – 4 × 10 = ...
e	23 × 10 = ...		

4 Put the suitable sign (< , = or >):

a	5 × 10	....	6 × 9	g	8 tens	....	10 × 8
b	3 × 10	....	3 × 3 × 3	h	8 × 5	....	4 tens
c	10 × 10	....	(9 × 10) + 9	i	5 × 1 × 0	....	5 × 10
d	30 tens	....	300	j	10 tens	....	(5 × 2) + 90
e	6 × 10	....	(5 × 10) + 10	k	7 tens + 3 tens	....	10 × 10
f	7 × 10	....	8 × 9	l	450	....	6 × 9 × 10

5 Join the equal results as the example:

Example:	(3 × 8) + 26	1	(12 × 10) + (9 × 10)
a	(6 × 10) - 40	2	20 tens
b	(7 × 3) × 10	3	4 × 5
c	20 × 10		20 040 - 19 990
d	3 tens + 7 tens	4	(5 × 10) + (3 × 10)
e	8 × 10	5	10 × 10



6 Complete each of the following as the example:

Example: 10 × 85 = 850

a .... × 10 = 170

b .... × 14 = 140

c 10 × .... = 410

d 10 × .... = 9120

e 145 × 10 = ...

f 5 tens × 10 = ...

g .... × 10 = 420

h 75 × .... = 750

i .... × 10 = 250

j 10 × .... = 630

7 Complete the following table as the example:

Example: ×10

5	8	16	27	19	33	20
50	80	160	270	190	330	200

a ×10

3	5	....	6	....	....	10
30	....	70	....	90	80	....

b ×10

....	12	240	48	....	....	....
60	....	....	....	230	4500	650

8 Complete as the example:



$7 \times 10 = 70 = 7$ tens

a $8 \times 10 =$ .... = ... tens

b $5 \times 10 =$ .... = ... tens

c Three tens = ... $\times 10 =$ ....

d Ten tens = ... $\times 10 =$ ....

e $115 \times 10 =$ .... = ... tens

9 Complete as the example:



$(44 - 34) \times 5 = 10 \times 5 = 50 = 5$ tens

a $(8 + 2) \times 7 =$ .... $\times 7 = 70 =$ .... tens

b $(37 - 27) \times 8 =$ .... $\times 8 =$ .... = ... tens

c $(324 - 314) \times 9 =$ .... $\times$ .... = ... = ... tens

d $(80 - 70) \times 4 =$ .... $\times 4 =$ .... = ... tens

10 Complete as the example:



$(5 \times 10) + 326 = 50 + 326 = 376$

$278 - (10 \times 3) = 278 - 30 = 248$

a $(10 \times 8) + 445 =$ .... $+ 445 =$ ....

b $(10 \times 7) - 23 =$ .... $- 23 =$ ....

c $(10 \times 9) + 410 =$ .... $+ 410 =$ ....

11 Complete as the example:



Example: 590 – (6 × 10) = 590 – 60 = 530 = 53 tens

a 480 – (5 × 10) = 480 – .... = ... = ... tens

b 840 + (10 × 2) = 840 + ... = ... = ... tens

12 a Arrange in descending order:

10 × 5 , 10 × 3 , 10 × 9 and 10 × 8

10 × 5 = ... , 10 × 3 = ... , 10 × 9 = ... , 10 × 8 = ...

The order is: .... , ... , ... and ....

b Arrange in ascending order:

10 × 2 , 10 × 5 , 10 × 4 and 10 × 7

10 × 2 = ... , 10 × 5 = ... , 10 × 4 = ... , 10 × 7 = ...

The order is: .... , ... , ... and ....

13 Put the suitable sign (> , = or <):

a 10 × 4 .... 3 + 37

b 8 × 5 .... 10 × 3

c 10 + 4 .... 10 × 2 + 10 × 2

d 6 × 8 .... 5 × 10

e 10 × 7 .... 20 + 24

f 18 × 10 .... (7 + 10) × 10

g (10 × 28) – 15 .... 13 + (5 × 10)

h 30 tens .... 290 + 10

14 Find the result as the example:

Example: $6 \times 10 = 60$

a) $9 \times 10 =$ ....

b) $4 \times 10 =$ ....

c) $2 \times 4 \times 10 =$ ....

d) $3 \times 6 \times 10 =$ ....

e) $3 \times 2 \times 10 =$ ....

f) $15 \times 10 =$ ....

g) $24 \times 10 =$ ....

h) $2 \times 8 \times 10 =$ ....

i) $10 \times 10 =$ ....

15 Complete the following as the example:

Example: $3 \times 10 = 30$

a) 10 × .... = 60

b) .... × 10 = 120

c) 10 × .... = 180

d) .... × 10 = 90

e) .... × 10 = 160

f) 10 × .... = 120

g) 5 tens + 3 tens = ... × 10

16 Put the suitable sign (> , = or <) as the example:

Example: $5 \times 10 < 6 \times 10$

a) 2 × 3 × 10 .... 6 × 10

b) 9 tens .... 9 × 9

c) 10 × 15 .... 1 × 5 × 10

d) 3 tens + 7 tens .... 73 × 10

17 Complete the following as the example:



Example: 8 × 10 = 10 × 8 = 80

a .... × 10 = 10 × .... = 90

b 10 × 2 × 3 = 10 × .... = ...

c 10 × 12 = 12 × .... = ...

d 5 × 7 × 10 = ... × 10 = ...

e .... × 10 = 10 × .... = 530

Life Problems

Read > Plan > Do > Answer > Check

18 Raouf bought 10 pens for 2 pounds each. **How much money did he pay?**

....

19 Nora bought 10 notebooks for 3 pounds each and 2 books for 10 pounds each. **How much money did she pay?**

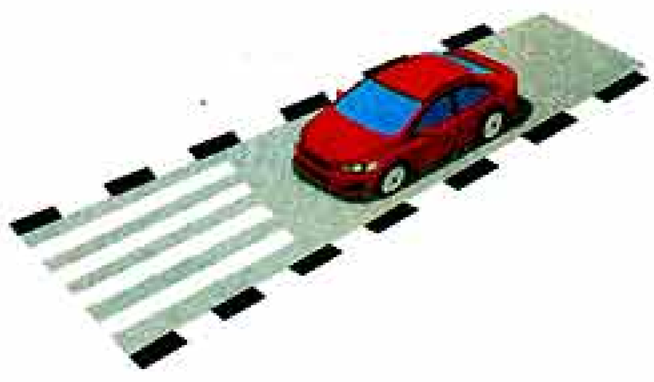
....

....

20 Ramez bought 10 notebooks for L.E. 4 each.
How much money did he pay?
What Ramez paid = ... × .... = **L.E.** ....



21 A car moves with a velocity of 70 kilometres per hour. **How many kilometres does the car cover in 10 hours?**
The distance = ... × .... = ... **kilometres.**



22 A primary school has 10 classes with 45 pupils in each. **How many pupils are there in the school?**



The number of pupils = ... × ....

= .... pupils.

23 Sahar bought a book for 25 pounds and 10 pens for 2 pounds each. **How much money did she pay?**





The price of pens= .... × .... = L.E. ....

What Sahar paid = ... + ... = L.E. ....

24 Walaa bought a dress for 77 pounds and 4 toys for 10 pounds each, if she had 150 pounds, **how much money remained with her?**



The price of toys = ... × .... = ... pounds.

The total of what Walaa paid = ... + ...

= .... pounds.

The money that remained with her = ... − ....

= ...... pounds.



25 **If the price of one kilogram of oranges is L.E 10, find the price of 72 kilograms.**

....

....

26 **How many hours are there in 10 days?**



....

Lesson 2

Multiplying by 100

(1) Remember that:

10 × 1 = 10
10 × 2 = 20
10 × 3 = 30
10 × 4 = 40
10 × 5 = 50
10 × 6 = 60
10 × 7 = 70
10 × 8 = 80
10 × 9 = 90
10 × 10 = 100

(2) Table 100

100 × 1 = 100
100 × 2 = 200
100 × 3 = 300
100 × 4 = 400
100 × 5 = 500
100 × 6 = 600
100 × 7 = 700
100 × 8 = 800
100 × 9 = 900
100 × 10 = 1000

(3) How can we multiply any number by 100?

100 × 3 = 300   100 × 5 = 500   100 × 13 = 1300

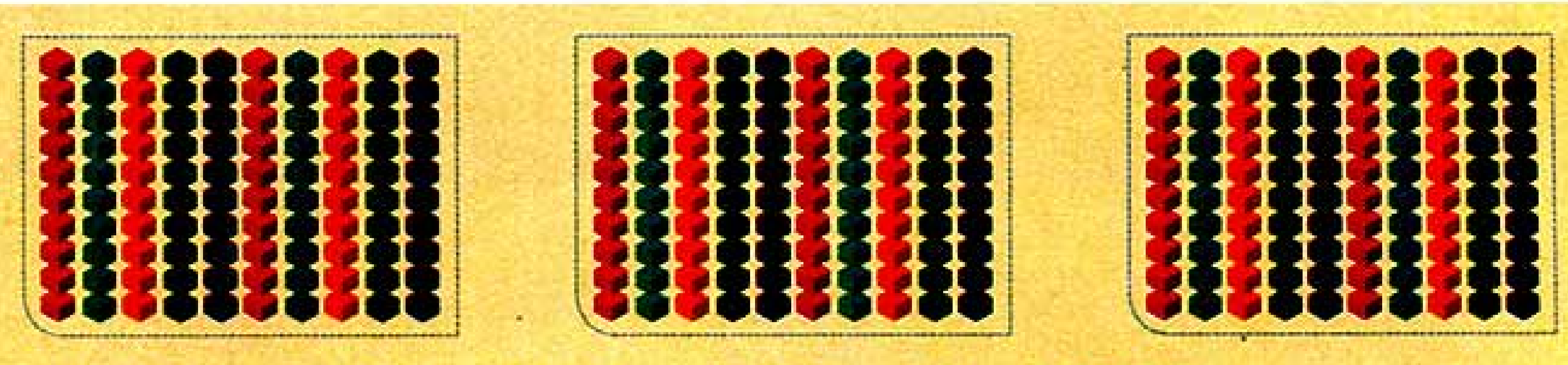
(4) How can we multiply any number by a multiple of 100?

3 × 700 = 2100 → 4 × 800 = 3200

Examples and Exercises

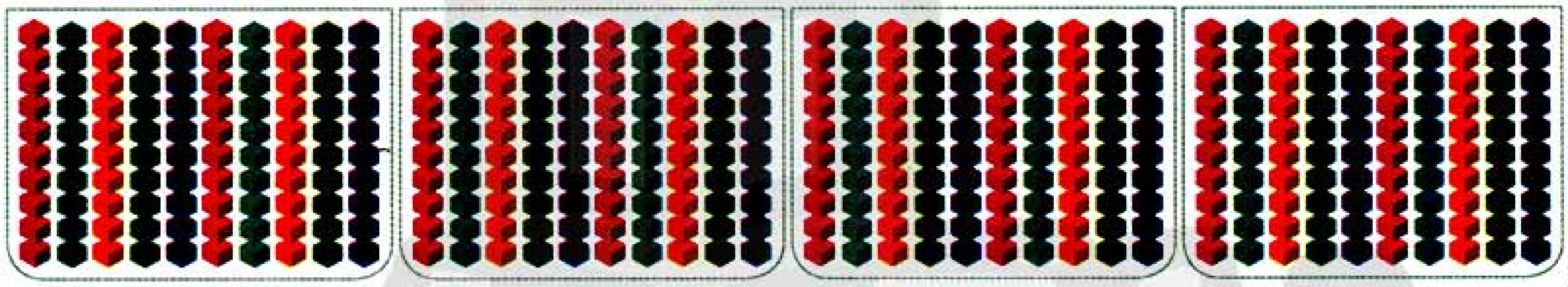
1 Complete as the example:

Example:



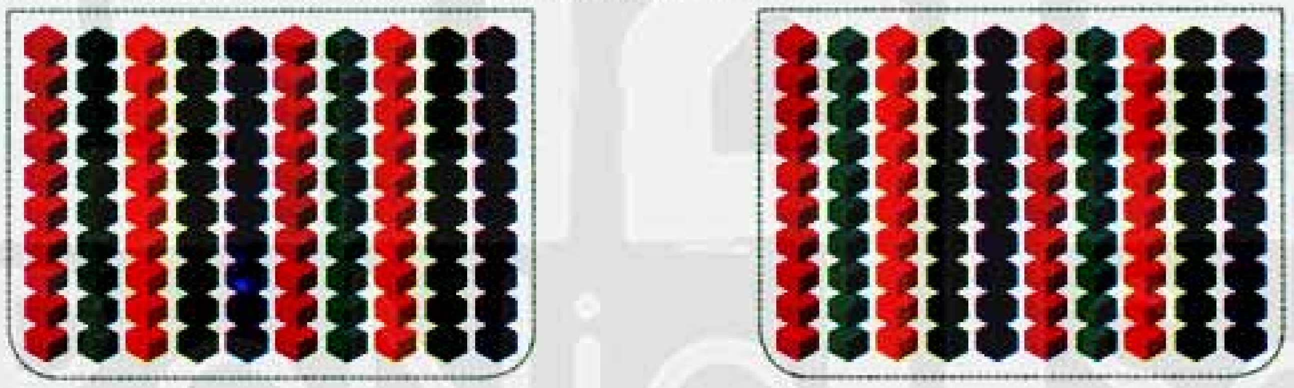
100 + 100 + 100 = 100 × 3 = **300**

a



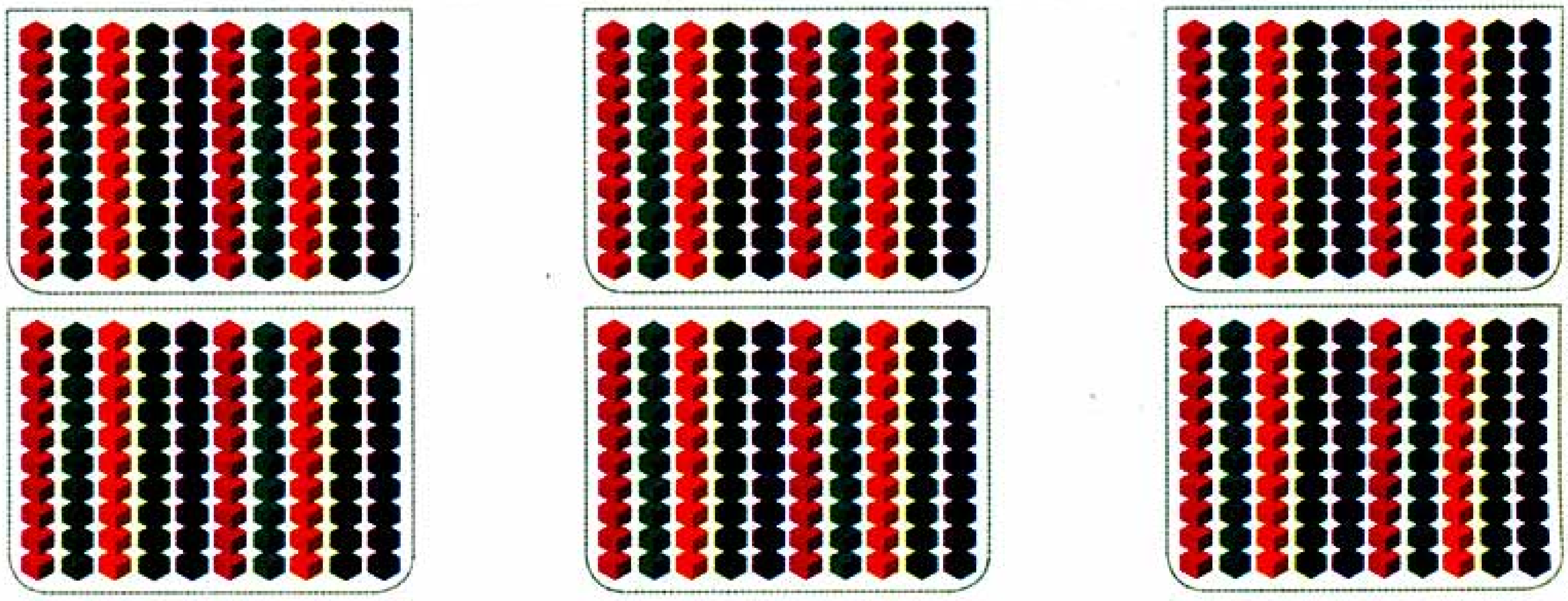
.... + ... + ... + ... = ... × .... = ...

b



.... + ... = ... × .... = ...

c



.... + ... + ... + ... + ... + ... = ... × .... = ...

2 Use the figures to complete as the example:

Example:



100 + 100 + 100 = 100 × 3 = 300

a



...... + ... + ... + ... + ... + ... = 100 × 6 = ...

b



...... + ... + ... + ... = 100 × 4 = ...

c



...... + ... + ... + ... + ... = 100 × 5 = ...

d



...... + ... + ... + ... + ... + ... + ... = 100 × 7 = ...

3 Match as the example:

Example: (7 × 100) - 100 → 600

a. 7 × 100
b. 200 + 200
c. (8 × 100) + 100
d. 100 × 2

200
400
600
700
900



4 Choose the correct answer as the example:

Example: 4 × ...... × 100 = 1200 (40 or 12 or ③)

a. 9 × .... × 100 = 3600 (7 or 8 or 9)
b. .... × 3 × 100 = 2700 (3 or 9 or 10)
c. 8 × .... × 100 = 3200 (2 or 3 or 4)
d. 3 × .... × 100 = 1500 (3 or 4 or 5)
e. 9 × .... × 100 = 1800 (2 or 20 or 200)

5 Complete as the example:

Example: (3 × 4) × 100 = 12 × 100 = 1200 = 120 tens

a. (8 × 3) × 100 = ... × 100 = ... = ... tens
b. (5 × 7) × 100 = ... × 100 = ... = ... tens
c. (.............. × 6) × 100 = 24 × 100 = ... = ... tens
d. (7 × ....) × 100 = 56 × .... = ... = ... tens

Exercise 2 Multiplying by 100

1 Choose the correct answer as the example:

Example: 6 × .... = 100 × 6 (600 or 1600 or 601 or 100)

a	100 × 70 = 700 ×	(1 000 or 100 or 10 or 1)
b	30 × 50 = 100 ×	(150 or 15 or 51 or 1 500)
c	30 × 100 = 10 ×	(3 or 300 or 3 000 or 13 000)
d	80 × 10 = 8 ×	(1 or 10 or 100 or 80)
e	5 000 = 100 ×	(5 or 50 or 500 or 5 000)
f	400 tens = 40 ×	(1 000 or 100 or 10 or 1)
g	70 hundreds = ...	(70 or 700 or 7 000 or 170)
h	10 × 900 = ... hundreds	(9 or 90 or 900 or 9 000)
i	600 tens = 60 ×	(10 or 1 or 1 000 or 100)
j	50 × 40 = ... hundreds	(2 or 9 or 20 or 90)
k	7 metres = ... centimetres	(7 or 70 or 700 or 7 000)
l	15 pounds = ... piastres	(105 or 150 or 1 005 or 1 500)
m	300 centimetres = ... metres	(30 or 3 or 300 or 13)

2 Complete each of the following as the example:

Example: 100 + 100 + 100 + 100 = 4 × 100

a. 300 + 300 + 300 + 300 + 300 = ... × 100

b. 800 + 800 + 800 = ... × 100

c. 400 + 400 + 400 + 400 + 400 = 20 × ....

d) 700 + 700 + 700 + 700 = 28 × ....

e) 80 × 30 = ... × 100

f) 500 × 10 = ... hundreds

g) 700 × 10 = ... tens

h) 3 hundreds = ... tens

i) 25 metres = ... centimetres

j) 14 metres = ... centimetres

k) 80 pounds = ... piastres



3 Join the equal results as the example:



Example: 30 × 100	1 90 hundreds
a 7 × 3 × 100	2 21 hundreds
b (60 × 10) - 400	3 3 hundreds
c (3 × 80) + 60	4 2 hundreds
d 900 tens	30 hundreds



4 Find the result of each of the following as the example:



Example: **7 × 100 = 700**

a) 80 × 10 = ...

b) 300 × 5 = ...

c) 40 × 70 = ...

d) 8 × 10 × 60 = ...

e) 10 × 50 × 9 = ...

f) 30 × 8 × 10 = ...

g) 13 × 100 = ...

h) 2 × 900 = ...

i) 3 × 7 × 100 = ...

5 Put the suitable sign (< , = or >):

a	100 × 7	....	370 + 320
b	50 × 10	....	500
c	60 × 10	....	20 × 40
d	50 × 30	....	3 × 5 × 100
e	80 tens	....	7 hundreds
f	3 metres	....	350 centimetres
g	9 pounds	....	900 piastres
h	30 + 10	....	30 × 10

6 Complete each of the following as the example:



Example: 3 × 100 = 100 + 100 + 100 = 300

a 100 × 6 = 300 + 200 + ...

b 4 × 100 = ...

c .... × 100 = 900

d .... × 100 = 200

e 100 × .... = 2 500

f 100 × 39 = ...

g 23 × 100 = ... = ... hundreds

h Seventy hundreds = 70 × .... = ...

i .... × 100 = ... = 10 hundreds

j .... × 100 = ... = 49 hundreds



7 Complete each of the following as the example:



Example: 7 metres = 700 centimetres

a 51 metres = ... centimetres.

b 140 metres = ... centimetres.

c 79 metres = ... centimetres.

1 metre = 100 centimetres



8 Complete the following table as the example:

Example: ×100

8	....	13	55	....	....	137
800	200	....	....	1100	4000	....

9 Complete as the example:



Example: (125 – 25) × 8 = 100 × 8 = 800 = 80 tens

a (25 + 75) × 9 = ... × 9 = ... = ... tens

b (558 – 458) × 7 = ... × 7 = ... = ... tens

c (17 + 83) × 5 = ... × 5 = ... = ... tens

10 Complete as the example:



Example: (5 × 100) + 324 = 500 + 324 = 824

a (3 × 100) + 622 = ... + 622 = ...

b (23 × 100) + 1112 = ... + ... = ...

c (100 × 99) + 423 = ... + ... = ...

d (100 × 55) – 3254 = ... – .... = ...

11 Complete as the example:



Example: 6 × 100 + 2 × 100 = 8 × 100 = 800 = 80 tens

a) 3 × 100 + 5 × 100 = ... × 100 = ... = ... tens.

b) 8 × 100 – 3 × 100 = ... × 100 = ... = ... tens.

c) 9 × 100 – 5 × 100 = ... × 100 = ... + ... tens.

12 Find the result as the example:

Example: **3 × 100 = 300**

a) 5 × 100 = ...

b) 2 × 3 × 100 = ...

c) 4 × 3 × 100 = ...

d) 3 × 3 × 100 = ...

e) 10 × 100 = ...

13 Complete the following as the example:

Example: **9 × 100 = 900**

a) 100 × .... = 500

b) .... × 100 = 1200

c) 100 × .... = 1800

d) .... × 3 × 100 = 2700

e) 24 × .... = 2400

f) 100 × .... = 1000

g) 30 × 40 = 100 × .... = ...

h) 20 × 90 = 100 × .... = ...

i) 40 × 60 = ... × 100 = ...

j) 10 × 150 = ... × 100 = ...

14 Complete as the example:

Example: **6 × 100 = 100 × 6 = 600 , 7 × 100 = 100 × 7 = 700**

a $2 \times 4 \times 100 =$ .... $\times 100 =$ .... , $100 \times 28 =$ .... $\times 100 =$ ....

b $100 \times 5 \times 7 = 100 \times$ .... $=$ .... , ... $\times 100 = 100 \times$ .... $= 7400$

15 Complete as the example:



Example: **7 metres = 700 centimetres because 7 × 100 = 700**

a 9 metres = ... centimetres because .... × 100 = ...

b 25 metres = ... centimetres because .... × 100 = ...



Read ➤ Plan ➤ Do ➤ Answer ➤ Check

16 If you know that Adel's father saves L.E. 100 monthly, complete:

a What he saves in 8 months = L.E. .... because 8 × 100 = ...

b What he saves in 10 months = L.E. because 10 × 100 = ...

c What he saves in one year = L.E. .... because .... × .... = ...

17 The wage of a worker is L.E. 100 in a week, find his wage in 4 weeks.

18 Hany saves L.E. 100 from his monthly salary. **How many pounds can he save in half a year?**

19 Wael bought 6 kilograms of apples for P.T. 800 each and 5 kilograms of oranges for L.E. 2 each.



How much money did he pay?

20 Adel's father saves 100 pounds monthly.

How much can he save in 8 months?



21 A book consists of 200 pages.

How many pages are there in 24 books?



22 If the price of one mobile is L.E. 400,

how much is the price of 8 mobiles?



23 A typist types 300 papers per day.

How many papers does he write in 9 days?



24 The monthly salary of a worker is L.E. 700.

What is his total salary in half a year?



Lesson 3

Multiplying by 1000

Remember that:

From the meaning of multiplication:

$1000 \times 4 = 1000 + 1000 + 1000 + 1000 = 4000$

Then we can deduce that

$1000 \times 1 = 1000$	$1000 \times 6 = 6000$
$1000 \times 2 = 2000$	$1000 \times 7 = 7000$
$1000 \times 3 = 3000$	$1000 \times 8 = 8000$
$1000 \times 4 = 4000$	$1000 \times 9 = 9000$
$1000 \times 5 = 5000$	$1000 \times 10 = 10000$

How to multiply **4** by **2000**?

$4 \times 2000 = 8000$ $\qquad$ $8 \times 3000 = 24000$

Examples and Exercises

1 Complete as the example:

Example: 1000 + 1000 + 1000 = 1000 × 3 = 3000

a 1000 × .... = 1000 + 1000 + 1000 + 1000 + 1000 = ...

b 1000 × 7 = ...

c 1000 × .... = 9000

d 1000 × 8 = ...

2 Complete the following table:

×1000						
	4	2	....	....	0	....
	4000	....	5000	7000	....	57000

3 Put the suitable sign (< , = or >) as the example:

Example: 1000 × 5 = (1000 × 4) + 1000

a (1000 × 7) – 2000 .... 100 × 6

b 1000 × 2 .... 1000 × 9

c 8 × 1000 .... 7 × 1000

4 Choose the correct answer as the example:

Example: 1000 × .... = 4 thousands (**4** or 40 or 400)

a) 2 × 4 × 1000 = ... tens (20 or 400 or 800)

b) 0 × 5000 = ... (0 or 5 or 5000)

c) 80 hundreds = ... (8 × 1000 or 8 × 100 or 8 × 1)

d) 7000 tens = ... hundreds (7000 or 700 or 70)

5 Complete as the example:

Example: (1000 × 8) – 1235 = 8000 – 1235 = 6765

a) (1000 × 3) – 1562 = ... – 1562 = ...

b) (1000 × 4) + 5320 = ... + 5320 = ...

c) (1000 × 28) – 8470 = ... – 8470 = ...

Exercise 3 Multiplying by 1000

1 Complete each of the following as the example:



Example: 1000 × 5 = 5000

a. 2000 × 3 = ...

b. 7000 × 5 = ...

c. 23 × 1000 = ...

d. 4000 × 6 = ...

e. .... × 4 = 12000

f. 90 × .... = 54000

g. 70 × 700 = ...

h. 24 × 1000 = ...

i. (3000 × 4) + 2000 = ...

j. (6 × 7000) – (9 × 4000) = ...

k. 3 kilograms = ... grams

l. 78 kilograms = ... grams

m. .... kilograms = 24000 grams

2 Match the equal results as the example:

Example: 5 × 1000 → 5000

a. 4000 × 7

b. 6000 × 4

c. 2 × 3000

d. 12000

e. 9000

f. 3 × 1000

1. 8 × 3000

2. 3000

3. 4000 × 3

4. 28000

5000

5. 6000

6. 30 × 300



3 Choose the correct answer as the example:



Example: **5000 × 3 = ...** **(5300 or 50003 or 15000)**

- **a** 2000 × 6 = ... (12000 or 2 600 or 6)
- **b** 6 × 6000 = ... (36006 or 36000 or 66000)
- **c** 9000 × .... = 27000 (7 or 4 or 3 or 8)
- **d** 5 kilograms = ... grams (50 or 500 or 5 000)
- **e** 13 kilometres = ... metres (1300 or 13000 or 1003)
- **f** 30 hundreds = ... thousands (3 or 30 or 300 or 3000)
- **g** 700 tens = ... hundreds (7 or 70 or 700 or 7000)
- **h** 6 × 1000 = ... hundreds (6 or 600 or 60 or 601)
- **i** 800 tens = ... thousands (8 or 80 or 180 or 800)
- **j** .... kilograms = 2000 grams (2 or 20 or 200 or 2000)
- **k** .... kilometres = 39000 metres (93 or 903 or 39 or 390)

4 Put the suitable sign (< , = or >):

- **a** 5000 .... 6 × 1000
- **b** 4000 × 5 .... 19000 + 1000
- **c** 8 × 2000 .... 4 × 4000
- **d** 7 × 4000 22000
- **e** 8 kilograms .... 800 grams
- **f** (7 × 2000) + (30 × 200) .... 2000 × 10
- **g** 3500 grams .... 3 kilograms
- **h** 700 tens .... 70 hundreds

5 Find the result as the example:

Example: 3 × 1000 = 3000

a) 1000 × 6 = ...
b) 2 × 2 × 1000 = ...
c) 1000 × 3 × 6 = ...
d) 45 × 1000 = ...
e) 1000 × 126 = ...
f) 7 × 9 × 1000 = ...
g) 6 × 6 × 1000 = ...
h) 300 × 50 = ...
i) 200 × 80 = ...

6 Complete the following as the example:

Example: 7 × 1000 = 1000 × 7 = 7000

a) .... × 1000 = 1000 × .... = 9000
b) 2 × 4 × 1000 = ... × 1000 = ...
c) 3 × .... × 1000 = ... × 1000 = 6000
d) 2 × .... × 1000 = 1000 × .... = 10000
e) 7 × .... × 1000 = 1000 × .... = 56000

7 Complete by using the suitable sign (< , = or >):

a) 100 × 2 .... 1000 × 2
b) 6 × 100 .... 2 × 3 × 10
c) 18 × 10 .... 8 × 100
d) 2 × 7 × 100 .... 14 × 10
e) 52 × 100 .... 25 × 100
f) 7 hundreds .... 7 × 100
g) 300 .... 3 thousands
h) 6 metres .... 500 centimetres
i) 30 × 400 .... 200 × 60

8 Put the suitable sign (< , = or >) as the example:

Example: $1000 \times 5 > 1000 \times 4$, $5 \times 1000 < 9 \times 1000$

a. (100×6) .... (1000×6)

b. 1000×8 .... 1000×7

c. 1000×7 .... $1000 + 2000 + 3000$

d. 50×300 .... 15×1000

e. 100×100 .... 1000×10

f. 27 kilograms .... 2700 grams

g. $(3 \times 1000) + (3 \times 1000)$ .... ten thousands

9 Complete each of the following as the example:

Example: $1000 \times 66 = 66\ 000$

a. .... $\times$ 1000 = 75000

b. 1000 $\times$ .... = 90000

c. .... $\times$ 1000 = 5000 = ... thousands

d. 1000 $\times$ .... = ... = 27 thousands

10 Complete each of the following as the example:

Example: **2 kilograms = 2000 grams.**

1 kilogram = 1000 grams
1 kilometre = 1000 metres

a .... kilograms = 2000 grams.

b 5 kilometres = ... metres.

c .... kilometres = 15000 metres.

11 Complete as the example:

Example: **(384 + 616) × 4 = 1000 × 4 = 4000 = 40 hundreds**

a (800 + 200) × 7 = ... × 7 = ... = ... hundreds.

b (6318 − 5318) × 8 = ... × 8 = ... = ... hundreds.

c (27 + 973) × 9 = ... × 9 = ... = ... hundreds.

12 Complete as the example:

Example: **(2 × 4) × 1000 = 8000 = 80 hundreds = 800 tens**

a (4 × 5) × 1 000 = ... = ... hundreds = ... tens

b (4 + 5) × 1 000 = ... = ... hundreds = ... tens

c (18 − 12) × 1 000 = ... = ... hundreds = ... tens

13 Complete as the example:



Example: $10 \times 500 = 100 \times 50 = 1000 \times 5 = 5000$

a) $100 \times 60 = 10 \times$ .... $= 1000 \times$ .... $=$ ....

b) $20 \times 600 = 100 \times$ .... $= 1000 \times$ .... $=$ ....

c) $30 \times 600 = 100 \times$ .... $= 1000 \times$ .... $=$ ....

d) $40 \times 500 = 100 \times$ .... $= 1000 \times$ .... $=$ ....



Life Problems

Read > Plan > Do > Answer > Check

14

The owner of a bookshop bought 1000 copies of books for L.E. 14 each.

Calculate their total price.

The total price = ...

15

The average profit of a shop is 1000 pounds a week.

What do you expect the profit to be in .....?

a) six weeks? = ... × .... = ... pounds.

b) eight weeks?= .... × .... = ... pounds.

c) twenty weeks? = ... × .... = ... pounds.



16 The monthly wages of the workers in a factory are L.E. 1000. **What are the wages of these workers in 3 months?**



17 If the price of a TV set is 1000 pounds, **find the price of 8 sets of the same kind.**



18 If the price of a gram of gold is 326 pounds, **find the price of a kilogram of gold.**



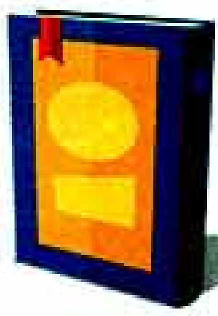
19 If the monthly salary of a worker is 1000 pounds, **what is his salary in a whole year?**



20 A man gave 1000 P.T. to everyone of his four sons. **How much money did they get?**



21 In the given book if each page contains 20 words and the number of pages is 300 pages, **find the number of words in this book.**

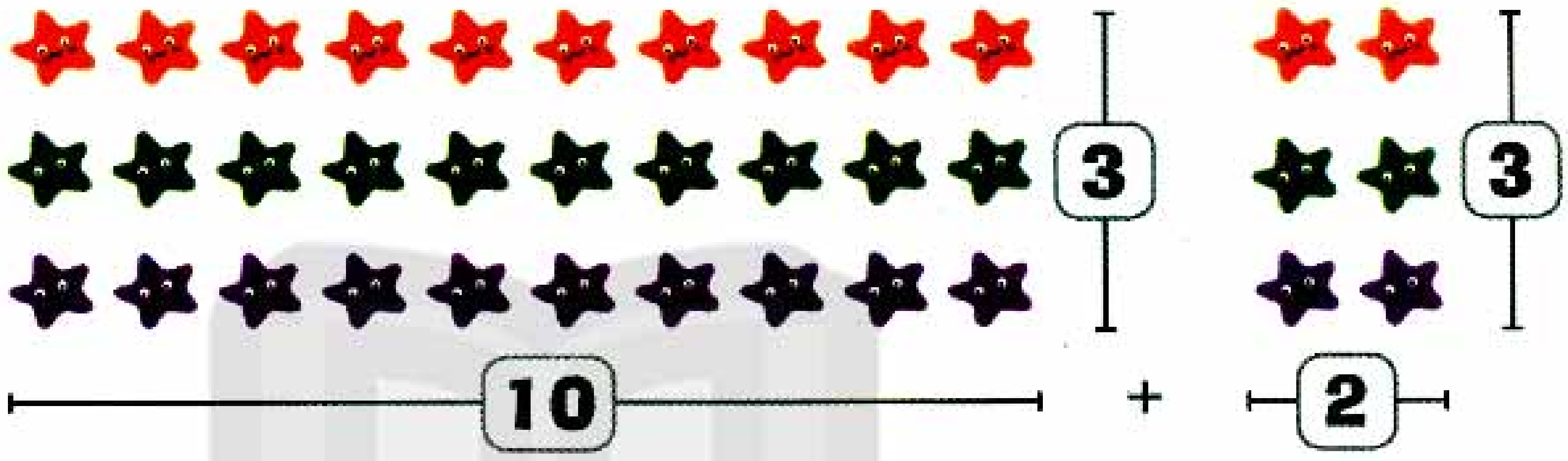


Lesson 4

Multiplying a number formed from 2 digits or more by a 1-digit number

How to find the product of 12 × 3

Note that:



$12 \times 3 = (10 \times 3) + (2 \times 3)$

$12 \times 3 = 30 + 6 = 36$

step 1 — **Multiply 3 by 2**

	1	2
×		3
		6

step 2 — **Multiply 3 by 1**

	1	2
×		3
	3	6

Examples and Exercises

1 Complete as the example:



Example:

	2	3
×		3
	6	9

a

	3	4
×		2
	.....	.....

b

	4	3
×		2
	.....	.....

c) 12 × 4 = ...

d) 31 × 5 = ...

e) 11 × 4 = ...

f) 32 × 2 = ...

g) 31 × 2 = ...

h) 23 × 3 = ...

2 Complete as the example:

Example:

	Tens	Ones
(carry)	1	
	4	6
×		2
	9	2

	Tens	Ones
(carry)	2	
	2	7
×		3
	8	1

	Tens	Ones
(carry)	1	
	6	8
×		2
	13	6

a) 49 × 3 = ...

b) 23 × 8 = ...

c) 52 × 9 = ...

d) 45 × 5 = ...

e) 36 × 3 = ...

f) 75 × 2 = ...

g) 57 × 3 = ...

h) 82 × 7 = ...

i) 42 × 6 = ...

3 Complete each of the following as the example:



Example:

×	1	4	
	5	1	6
			7
3	6	1	2

a

×	......	......	
	5	9	8
			7
......	......	......	......

b

×	......	......	
	6	8	2
			3
......	......	......	......

c

×	......	......	
	3	5	6
			4
......	......	......	......

d

×	......	......	
	8	0	4
			8
......	......	......	......

e

×	......	......	
	9	3	5
			7
......	......	......	......

f

×	......	......	
	8	7	4
			9
......	......	......	......

g

×	......	......	
	6	9	8
			6
......	......	......	......

h

×	......	......	
	7	2	4
			5
......	......	......	......

i

×	......	......	
	7	6	0
			4
......	......	......	......

4 Complete as the example:



Example:

$$2 \times 123 = 2 \times 100 + 2 \times 20 + 2 \times 3$$
$$= 200 + 40 + 6$$
$$= 246$$

×	100	20	3
2	200	40	6

⟹ $2 \times 123 = 200 + 40 + 6 = 246$

a $2 \times 134 = 2 \times$ .... $+ 2 \times$ .... $+ 2 \times$ ....

$=$ .... $+$ .... $+$ .... $= 268$

×	100	30	4
2	....	....	....

➡ $2 \times 134 =$ .... $+$ .... $+$ .... $=$ ....

b $3 \times 125 = 3 \times$ .... $+ 3 \times$ .... $+ 3 \times$ ....

$=$ .... $+$ .... $+$ .... $= 375$

×	100	20	5
3	....	....	....

➡ $3 \times 125 =$ .... $+$ .... $+$ .... $=$ ....

Exercise 4 Multiplying a 2-digit number or more by a 1-digit number

1 Complete each of the following as the example:

Example: 8 × 7 = 56

a 3 × 5 = ...

b 4 × 26 = ...

c 10 × 37 = ...

d 5 × 7 × 10 = ...

e 4 × 8 × 100 = ...

f 3 × 640 = ...

g 2 × 6 × 0 = ...

h 9 × 3 × 1000 = ...

i 83 × 4 = (80 × 4) + (.......... × 4)

j 132 × 8 = ...

k 8 × 12 = (8 × 5) + (8 × ....)

l 128 × 3 = (100 + ... + 8) × 3

m 264 × 7 = ...

2 Choose the correct answer as the example:

Example: 25 × 3 = ... (105 or 65 or 75)

a 57 × 8 = ... (465 or 456 or 546)

b 73 × 9 = ... (657 or 567 or 675)

c 86 × 4 = ... (344 or 434 or 443)

d 7000 × 6 = ... (2 400 or 40 200 or 42 000)

e 98 × 6 = ... (588 or 558 or 858)

f 3 kg = ... gm (30 or 300 or 3 000)

g 2 km = ... m (20 or 2 000 or 3 000)

3 Complete each of the following in the same pattern as the example:



Example: **2 , 4 , 8 , 16 , 32 , 64**

a 0 , 3 , 6 , 9 , ... , ... , ...

b 0 , 8 , 16 , ... , ... , ... , ...

c 3 , 9 , 27 , ... , ... , ...

d 4 , ... , 64 , 256 , ... , ...

e 6 , 36 , 216 , ... , ... , ...

4 Put the suitable sign (> , = or <):

a 119 × 3 .... 191 × 3

b 4 × 15 .... (4 × 8) + (4 × 7)

c 3 115 × 7 .... 999 × 9

d 286 × 3 .... 200 × 4

e 3 698 × 8 .... 4 227 × 7

f 7 × 42 × 10 .... 2 940

g 215 × 4 .... 415 × 2

h 7 × 24 .... 7 + 24

5 Find the result of the following as the example:



Example:

	5	4	9
×			7
3	8	4	3

a

	6	5	3
×			8
....	....	....	....

b

	7	8	0	1
×				5
....	....	....	....	....

c

	4	2	1	5
×				3
....	....	....	....	....

6 Find the result of each of the following as the example:

Example: $125 \times 4 = 500$

a) $65 \times 5 =$ ....

b) $105 \times 8 =$ ....

c) 📖 $3782 \times 8 =$ ....

d) 📖 $7438 \times 5 =$ ....

e) 📖 $6743 \times 9 =$ ....

7 Complete the missing numbers as the example:

Example:

×	1	2	7	0
				7
	8	8	9	0

a)

×		4	5	......
				7
	3	1	8	5

b)

×	2	......	7	6
				3
	7	1	......	......

c)

×	1	4	......	4
				4
	5	......	5	......

8 Complete by getting the missing digit as the example:

Example:

×		3	......	4
				......
	1	2	9	6

Solution →

×		3	(1) ②	4
				④
	1	2	9	6

a

	.....	.....	.....
×	2	3	....
			6
1	3	....	2

b

.....	.....	.....	
1	2	....	7
×			5
....	3	3	....

9 Complete as the example:

Example:

×	6	④	5
			7
4	5	1	5

×	2	3	⑥	8
				9
2	1	3	1	2

a

×	5	....	8	6
				6
3	1	7	....	....

b

×	6	....	5	7
				6
3	....	7	....	2

c 69 .... × 5 = 3490

d 5 × 4 .... 3 = 231 ....

10 Complete in the same pattern as the example:

Example: **5 , 25 , 125 , 625, 3125, 15625**

a 10 , 100 , 1000 , ... , ...

b 6 , 36 , 216 , ... , ...

11 Complete by using the suitable sign (< , = or >):

a	286 × 3	....	200 × 4	
b	1234 × 9	....	3702 × 3	
c	6594 × 6	....	7912 × 5	
d	2465 × 7	....	2875 × 6	
e	3698 × 8	....	4227 × 7	
f	4689 × 10	....	9378 × 5	

12 Complete as the example:



Example:

×		4	6
			3
	1	3	8

×	1	5	7
			4
	6	2	8

×		1	6	2	3
					7
	1	1	3	6	1

a

×		5	3
			4
	......	......	......

×		7	2
			6
	......	......	......

×		4	8
			7
	......	......	......

b

×		2	3	6
				4
	......	......	......	......

×		3	4	8
				6
	......	......	......	......

×		6	3	5
				5
	......	......	......	......

c

×		2	3	4	7
					5
	......	......	......	......	......

×		1	8	4	2
					8
	......	......	......	......	......

×		2	4	3	2
					9
	......	......	......	......	......

13 Multiply:

a

⊗		2	7
			8
	....	....	....

⊗		5	6
			3
	....	....	....

⊗		1	2	8
				6
	....	....	....	....

⊗		3	1	6
				9
	....	....	....	....

b

⊗		2	2	3	4
					2
	....	....	....	....	....

⊗		6	2	3	4
					3
	....	....	....	....	....

⊗		5	4	8	9
					4
	....	....	....	....	....

⊗		6	7	4	3
					9
	....	....	....	....	....

14 Find the result as the example:

Example: $43 \times 5 = 215$

a 76 × 4 = ...

b 286 × 8 = ...

c 304 × 2 = ...

d 2261 × 7 = ...

e 5092 × 4 = ...

f 3002 × 5 = ...

g 555 × 7 = ...

h 2211 × 9 = ...

i 5678 × 4 = ...



Life Problems

Read ➤ Plan ➤ Do ➤ Answer ➤ Check

15 The price of one metre of cloth is P.T. 875. **Find the price of 6 metres of cloth and find the price of 60 metres of the same kind of cloth.**



....

....

16 Ahmed bought 5 kg of meat for 80 pounds each kg. If he had 500 pounds, **how many pounds would remain with him?**



....

....

17 Amin bought 4 toys for 20 pounds each and 2 books for 12 pounds each. **How much money did he pay for all?**



....

....

18 Walaa bought a dress for 77 pounds and 3 books for 14 pounds each. If she had 140 pounds, **how much money would remain with her?**



....

....

19 Ramy bought 2 books for 3 pounds each and 5 pens for 2 pounds each. If the remainder with him is 4 pounds, **how much money did he have?**



20 Mostafa bought 3 metres of cloth to have a suit made. **How much money did Mostafa pay if the price of one metre is 89 pounds?**



21 Tamer bought 5 toys for 15 pounds each.
How much money do they all cost?



22 Ramy wrote 23 lines. Each line contains 8 words.
How many words did Ramy write?



23 Hany bought 3 books for P.T. 150 each and 5 pens for P.T. 50 each. **How much money did he pay?**



24 Sara had L.E 120 and she bought two T-shirts for L.E.17 each and 3 pairs of trousers for L.E. 21 each. **Find the remainder with her.**



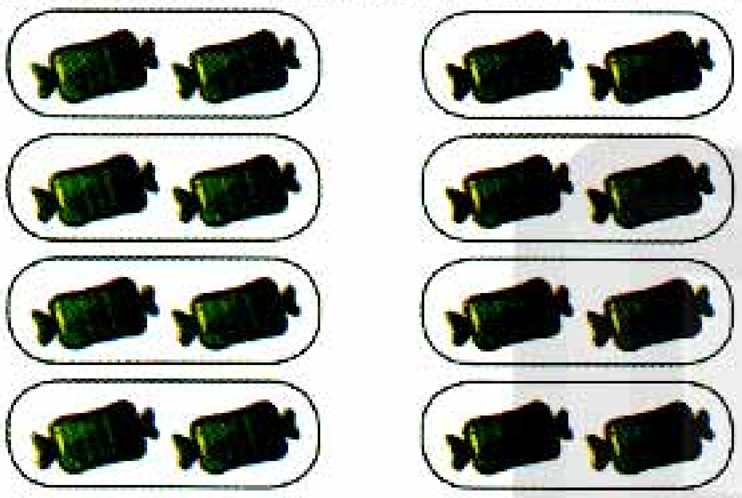
Lesson 5

Even numbers and odd numbers

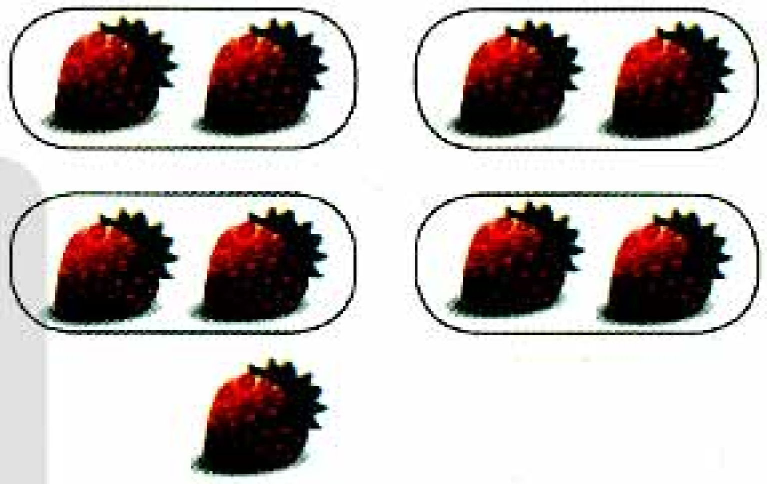
Notice and think:

Look at the following:

a



even number



odd number

b

0 , 1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 ....

1. The **even** numbers are: 0 , 2 , 4 , 6 , 8 , 10 , ...
2. The **odd** numbers are: 1 , 3 , 5 , 7 , 9 , ...

Remarks

1. The **even** numbers can be divided by 2 with no **remainder**.
2. The **even** number is the number whose **units digit** is 0 or 2 or 4 or 6 or 8.
   So, the numbers 32, 54, 76, 198, 580, ... are even.
3. The **odd** number is the number whose **units digit** is 1 or 3 or 5 or 7 or 9.
   So, the numbers 31, 63, 85, 847, 429, ... are odd.
4. If we add **2** to any **even** number it remains **even**. But if we **add 1** to any **even** number it becomes an **odd** number.
   e.g.: 12 + 2 = (14) even   12 + 1 = (13) odd.

Notice:

Even number	+	even number	=	even number
For example: 2	+	4	=	6
Odd number	+	odd number	=	even number
For example: 3	+	5	=	8
Odd number	+	even number	=	odd number
For example: 3	+	4	=	7

Examples and Exercises

1 Complete as the example:

Example: 21 (odd) 350 (even)

a 60 (............)
b 425 (............)
c 678 (............)
d 326 (............)
e 252 (............)
f 623 (............)
g 384 (............)
h 657 (............)

2 Complete as the example:

Example:

14	+	8	=	22
Even	+	even	=	even number

a)

15	+	23	=	....
Odd	+	Odd	=	....

b)

58	+	13	=	....
Even	+	Odd	=	....

c)

45	+	12	=	....
Odd	+	even	=	....

d)

16	+	220	=	....
Even	+	Even	=	....

e)

671	–	71	=	....
Odd	–	Odd	=	....

3 Put a line under the even numbers in the following:

4069 , 17352 , 74 , 2003 , 3002

4 Put a line under the odd numbers in the following:

174 , 5103 , 1035 , 2406 , 46

Exercise 5 Even numbers and odd numbers

1 Complete each of the following as the example:



Example: 56 is an **even** number while 57 is an **odd** number.

- **a** 743 is an .... number.
- **b** 580 is an .... number because the .... digit is ....
- **c** 901 is an .... number because the .... digit is ....
- **d** The numbers 11 , 21 and 31 are called .... numbers.
- **e** The numbers 30 , 56 and 74 are called .... numbers.
- **f** The even number just after 20 is ....
- **g** The odd number just before 49 is ....
- **h** The odd number between 7 and 11 is ....
- **i** The sum of two even numbers is an .... number.
- **j** The sum of two odd numbers is an .... number.
- **k** The sum of an even number and an odd number is an .... number.
- **l** The sum of an .... number and an even number is an odd number.
- **m** If we multiply any number by 2, the result will be .... number.

2 Complete the following table:

The number	add 1	add 3	add 2
32	odd	odd	....
45	even	....	....
70	....	....	even

3 Circle the even numbers in each of the following as the example:

Example:

725 (864) 213 274 319 741 450 512 907 64 358

4 Circle the odd numbers in each of the following as the example:

Example:

310 (725) 381 700 58 35 503 294 346 71 49

5 Colour the balloons having an even number in yellow and the balloons having an odd number in red:

34 | 165 | 400 | 216 | 445 | 10000

6 Match as the example:

Example: 45 + 2 → Odd

a 38 – 4

b 235 × 2

c $\frac{1000}{2}$

Even

Odd

d 45 + 5

e 38 – 3

f 502 × 2

g $\frac{600}{3}$

7 Complete each of the following as the example:

Example: The odd number just after 9 is 11

a The odd number just before 10 is ....

b The odd number just after 19 is ....

c The two even numbers that lie between 15 and 19 are .... and ....

8 Complete in the same pattern as the example:

Example: 8 , 10 , 12 , 14 , 16 , 18 , 20

a 31 , 33 , ... , ... , ...

b 316 , 318 , 320 , ... , ...

c 113 , 115 , ... , ... , ...

d 13 , 24 , 35 , ... , ... , ...

e 127 , 136 , 145 , ... , ... , ...

9 Complete each of the following as the example:

Example: I am an even number less than 30 by 4.
I am 26.

Who am I ?

a I am an odd number more than 20 by 7.
I am ....

b I am an odd number included between 10 and 15 and divisible by 3.
I am ....

c I am an even number included between 30 and 40 and the sum of my two digits is 7.

I am ....

d I am the greatest two-different-digit number divisible by 3.

I am ....

e I am the smallest two-digit number divisible by 4.

I am ....

10 Complete the following:

a Any even number + 1 = ... number

b Any even number − 1 = ... number

c Any odd number + 1 = ... number

d Any odd number − 1 = ... number

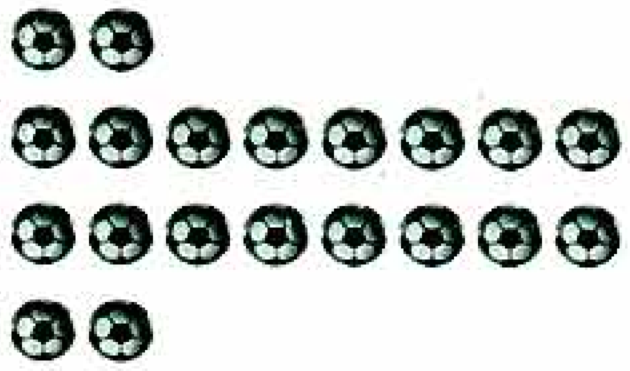
e Any even number + 2 = ... number

f Any odd number + 2 = ... number

g The even number just after 306 is ....

h The odd number just after 2751 is ....

11 In the following figures, notice each figure and then complete by using a word of (even or odd):



.... number



.... number



.... number

12 Complete each of the following as the example:

Example: Write two even numbers whose sum is 100 (50 and 50).

a. Write two consecutive odd numbers whose sum is 100: .... and ....

b. Write three consecutive even numbers just after 71: .... , ... and ....

c. Write three consecutive odd numbers just before 42: .... , ... and ....

d. Write two consecutive odd numbers, greater than 21: .... and ....

e. Write two consecutive even numbers, smaller than 50: .... and ....

f. Write the odd numbers between 64 and 74: ....

g. Write the even numbers formed of the digits 7, 8, 5: ....

13 Who am I?

a. I am an even number, less than 60 and greater than 50.

b. I am an odd number, greater than 70 and less than 80.

c. I am an even number. If you multiply me by 5, the result will be 400.

d. I am an odd number. If you divide me by 9, the quotient will be 7.

e. The greatest even number formed of 2 digits.

Lesson 6

Dividing a number by a 1-digit number

How to divide 484 ÷ 4?

Solution

First method:

We know that: $484 = 400 + 80 + 4$

Then: $\frac{484}{4} = \frac{400}{4} + \frac{80}{4} + \frac{4}{4}$

$= 100 + 20 + 1$

So $484 \div 4 = 121$ Or $4 \overline{)484}$ = 121

1 Complete as the example:

Example:

$963 = 900 + 60 + 3$

$963 \div 3 = \frac{900}{3} + \frac{60}{3} + \frac{3}{3}$

$= 300 + 20 + 1$

So $\frac{963}{3} = 321$ Or $3 \overline{)963}$ = 321

Starting the division from the highest digit of the dividend.

a $482 \div 2 = \frac{400}{2} + \frac{80}{\text{.......}} + \frac{\text{.......}}{\text{.......}}$

So $482 \div 2 =$ .... Or $2 \overline{)482}$ ....

b $3 \overline{)306}$ $= \frac{300}{3} + \frac{0}{3} + \frac{6}{3}$

$=$ .... $+ 0 +$ .... Or Then $3 \overline{)306}$

So $\frac{306}{3} =$ ....

Second method:

To divide 484 by 4, follow the steps below:

1st step

$4 \overline{)484}$ → quotient: 1

divide the hundreds digit

$4 \div 4 = 1$

2nd step

$4 \overline{)484}$ → quotient: 12

divide the tens digit

$8 \div 4 = 2$

3rd step

$4 \overline{)484}$ → quotient: 121

divide the units digit

$4 \div 4 = 1$

So, 484 ÷ 4 = 121

2 Complete as the example:



Example: Divide 756 by 7

1st step

$7 \overline{)756}$ → quotient: 1

2nd step

$7 \overline{)756}$ → quotient: 10

3rd step

$7 \overline{)756}$ → quotient: 108

So, 756 ÷ 7 = 108

Note that: if the dividend is smaller than the divisor, then put "0" in the quotient as follows:

a) 3 24 ÷ 3

b) 2 149 ÷ 7

c) 2 406 ÷ 6

Exercise 6 Dividing a number by a 1-digit number

1 Choose the correct answer as the example:



Example: 455 ÷ 5 .... 23 × 7 (> or < or =) — answer: <

- **a** (8 × 8) ÷ 8 = ... (1 or 8 or 64)
- **b** 408 ÷ 4 = ... (102 or 12 or 20)
- **c** (27 + 72) ÷ 3 = ... (9 or 99 or 33)
- **d** (65 ÷ 5) – 13 = ... (15 or 0 or 2)
- **e** (521 – 101) ÷ 7 = ... (70 or 60 or 6)
- **f** 426 ÷ 2 = ... (203 or 213 or 214)
- **g** 505 ÷ 5 = ... (101 or 151 or 111)
- **h** 640 ÷ 8 = ... (70 or 80 or 90)
- **i** 900 ÷ 3 = ... (300 or 600 or 100)
- **j** 2 804 ÷ 2 .... 3 906 ÷ 3 (> or < or =)
- **k** 270 ÷ 3 .... 1 19 × 3 (> or < or =)
- **l** 1 651 ÷ 3 .... 1 651 × 3 (> or < or =)
- **m** 4 264 ÷ 8 .... 2 132 ÷ 4 (> or < or =)

2 Put the suitable sign (< , = or >):

- **a** 100 ÷ 5 .... 100 ÷ 4
- **b** (15 ÷ 5) + 27 .... 5 × 5
- **c** 128 × 3 .... 1 000 ÷ 4
- **d** 366 ÷ 6 60
- **e** 3 752 ÷ 7 .... 3 752 × 7
- **f** 250 × 6 .... 5000 ÷ 5
- **g** 420 + 4 .... 1420 ÷ 5
- **h** 8 hundreds ÷ 4 .... 20 × 10
- **i** 150 ÷ 3 .... 23 × 7
- **j** 120 × 3 .... 600 ÷ 6
- **k** 488 ÷ 8 .... 122 ÷ 2
- **l** 4 026 ÷ 2 .... 6 039 ÷ 3

3 Fill in the boxes with the suitable number:

÷ 6 / × 6

300	....	606	186
....	201	....	....

÷ 4 / × 4

328	....	248	....
....	2001	....	302

4 Find the quotient of each of the following as the example:



Example: 963 ÷ 3 = 321

a) 460 ÷ 2 = ...

b) 804 ÷ 4 = ...

c) 6482 ÷ 2 = ...

d) 9300 ÷ 3 = ...

e) 7070 ÷ 7 = ...

f) 8044 ÷ 4 = ...

g) 5500 ÷ 5 = ...

h) 7 ⟌ 4270

i) 8 ⟌ 1688

j) 4 ⟌ 484

k) 4 ⟌ 1648

l) 7 ⟌ 3507

m) 2 ⟌ 4086

n) 6 ⟌ 4260

5 Complete the following:

a) The quotient of division of 505 ÷ 5 = ...

b) The quotient of division of 246 ÷ 2 = ...

c) .... ÷ 2 = 32

d) .... ÷ 3 = 203

e) .... ÷ 5 = 21

f) .... ÷ 3 = 333

6 Put the suitable sign (< , = or >) as the example:

Example: 636 ÷ 3 [<] 222

a	366 ÷ 3	....	122
b	3966 ÷ 2	....	3966 ÷ 3
c	3 × 7	....	210 ÷ 7
d	800 ÷ 4	....	200 × 2
e	200 ÷ 2	....	50 × 2
f	497 ÷ 7	....	63 + 8

7 Complete as the example:

Example:

396	÷	3		
300	÷	3	=	100
90	÷	3	=	30
6	÷	3	=	2
396	÷	3	=	132

a

284	÷	2		
200	÷	2	=	....
80	÷	2	=	....
4	÷	2	=	....
284	÷	2	=	....

b

848	÷	4		
800	÷	....	=	....
....	÷	....	=	....
....	÷	....	=	....
848	÷	4	=	....

8 Find the result as the example:

Example: 963 ÷ 3 = 321 , 460 ÷ 2 = 230

a	804 ÷ 4 = ...	,	6482 ÷ 2 = ...
b	9300 ÷ 3 = ...	,	7070 ÷ 7 = ...
c	624 ÷ 2 = ...	,	666 ÷ 6 = ...
d	999 ÷ 9 = ...	,	800 ÷ 2 = ...
e	4682 ÷ 2 = ...	,	5500 ÷ 5 = ...
f	8044 ÷ 4 = ...		

9 Find the result as the example:

Example: 2) 624 = 312

a) 3) 936 = ...

b) 5) 500 = ...

c) 2) 2084 = ...

d) 4) 1608 = ...

e) 6) 3660 = ...

f) 7) 1407 = ...

g) 9) 9009 = ...

h) 4) 248 = ...

10 Complete as the example:

Example: 266 → ÷ 2 → 133 → × 5 → 665

a) 180 → ÷ 9 → .... → × 2 → ....

b) .... → ÷ 3 → .... → × 2 → 606

11 Calculate the following as the example:

Example: $460 \div 2 = 230$

a) $636 \div 3 =$ ....

b) $525 \div 5 =$ ....

c) $4682 \div 2 =$ ....

d) $7070 \div 7 =$ ....

12 Put the suitable sign (< , = or >):

a) $54 \div 6$ 8

b) $100 \div 4$ .... 5×5

c) $72 \div 8$ .... $63 \div 7$

d) $2061 \div 9$ .... $2061 \div 7$

e) $8109 \div 9$ 91

f) $75 \div 5$ .... 3×5

g) $25 \div 25$ .... 5×1

h) 10×5 .... $25 + 25$

i) $72 \div 8$ .... $9 \div 1$

j) $18 \div 3$ .... $7 + 5$

k) $36 \div 9$ .... 3×2

l) $(32 \div 4) + 8$ .... 7×2

13 Choose the correct answer as the example:

Example: $804 \div 4 =$ .... (21 or **201** or 102)

a) $36 \div 6$ .... 36×4 (< or = or >)

b) $460 \div 10 =$ .... (36 or 406 or 46)

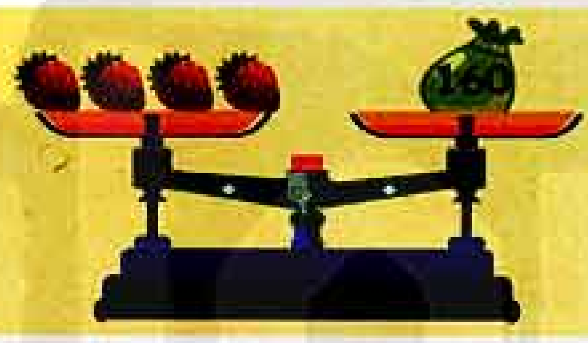
c) $(39 + 15) \div 9 =$ .... (5 or 4 or 6)

d) $(15 - 3) - (72 \div 8) =$ .... (1 or 2 or 3 or 7 or 0)

e	$9300 \div 3 =$	(100 or 3100 or 310)
f	.... is an even number	(125 or 360 or 603)
g	$18 \div 3 = 3 \times$	(6 or 3 or 2 or 1)
h	9 tens $\div 9 =$	(10 or 100 or 1000)
i	$\frac{28}{4} =$	(4 or 6 or 7)
j	$(400 + 20 + 6) \div 2 =$	(312 or 3103 or 123 or 213)
k	.... $\div 10 = 32$	(320 or 3200 or 302)
l	$2721 \div 3$ .... 92×9	(< or = or >)
m	$2406 \div 6 =$	(41 or 410 or 401)

14 Find the value of the following figures as the example:

Example:



$= 160 \div 4 = 40$

a



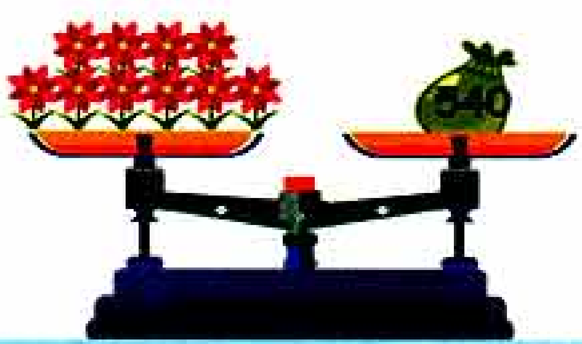
$= 400 \div 5 =$ ....

b



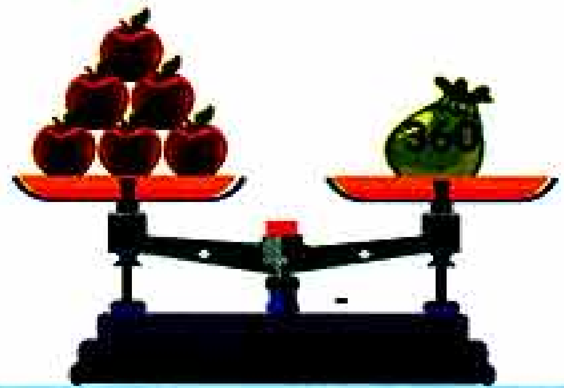
$=$ ....

c



$=$ ....

d



$=$ ....

Real Life Problems

Read > Plan > Do > Answer > Check

15 Samia and Mariam's father distributed 226 pounds equally between them. **Calculate the share of each of Samia and Mariam.**

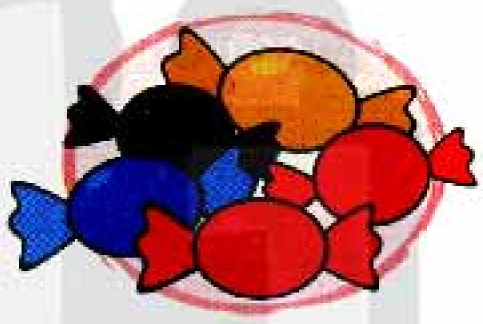
The share of Samia = ………………… pounds

The share of Mariam = ………………… pounds



16 We want to distribute 626 pieces of sweets between two boxes on condition that each one contains the same number of pieces. **Complete:**

The number of pieces in each box = ……………



17 A primary school has 9 classes, and each class has the same number of pupils. If the total number of pupils in this school is 450 pupils, **find the number of pupils in each class.**

The number of pupils in each class = …… pupils

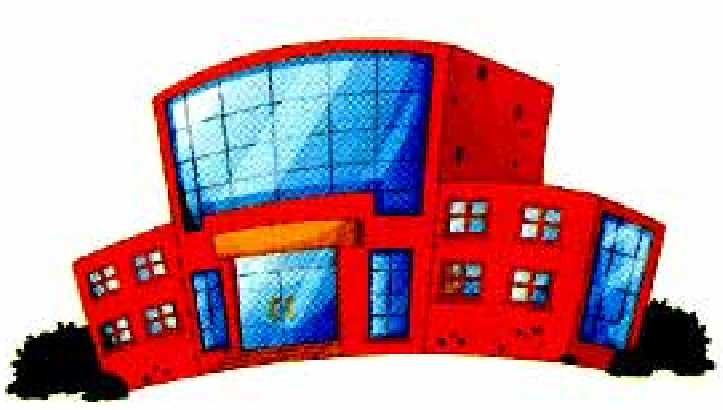


18 A school headmaster wants to buy books for L.E. 69. If the cost of one book is L.E. 3,

how many books can he buy?

The number of the books that he can buy = …

…………………………………………………………

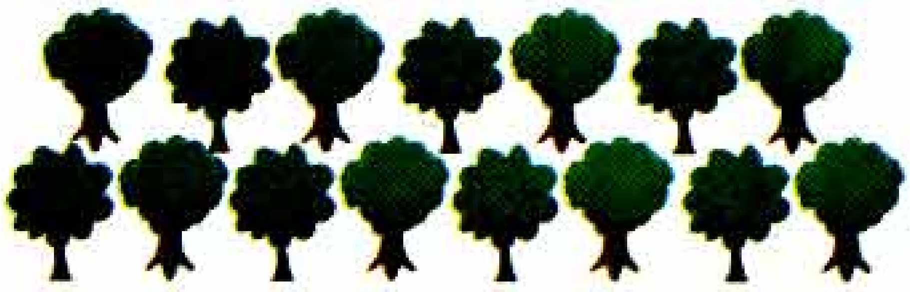


19 A man distributed 848 pounds equally among his four children. **Find the share of each one.**



20 There are 819 fruit trees which were planted in 9 rows.

How many trees are there in each row?



21 Ahmed and Omar's father distributed 420 pounds between them equally. **What is the share of each one?**



22 An equal number of children are vaccinated against polio in one of the Ministry of Health clinics. If 328 children are vaccinated in 8 days on an equal basis, **then how many children were vaccinated in 5 days?**



23 A father distributed 200 pounds among his four sons equally on the occasion of the feast day. **What is the share of each one of them?**



24 Mohamed bought 3 metres of cloth for L.E. 270 to have a suit. **What is the price of one metre?**



25 In one of the libraries there are 804 books which have to be distributed among four shelves equally. **How many books should be put on each shelf?**



....

26 A piece of land was divided equally among 3 farmers. If the area of the land is 12 feddans, **what is each farmer's share?**

General Exercises from the School Book

1 Write the following numbers in digits:

1. Forty-five tens = ...
2. Ten = ...
3. Seventy = ...
4. Five hundreds and sixty tens = ...
5. Sixty-four tens = ...
6. Fifteen tens = ...
7. Ninety-eight tens = ...
8. Nine tens = ...
9. Thirty-one tens = ...
10. Two tens = ...
11. Three hundred tens = ...
12. Twenty-three hundreds = ...
13. Two hundreds = ...
14. Nine hundreds = ...

2 Answer the following:

1. If the price of one kg of orange is 3 pounds, **what is the price of ten kg?**

   Solution: The price of ten kg of oranges = ... × .... = ... pounds.

2. Karol takes 5 pounds from her father every day.

   Calculate what Karol takes in a week.

   Solution: What Karol takes in a week = ... × .... = ... pounds.

3 There are two fish aquariums, the price of each is 250 pounds.

What is the price of the two aquariums?

Solution: The price of the two aquariums = ... × .... = ... pounds.

4 Osama bought three boxes of colours and the price of each is ten pounds.

Calculate what Osama paid.

Solution: The price of colouring case = ... × .... = ... pounds.

3 In a shop for selling electric sets, the price of electric sets was shown on them. Complete the following:

The set	The number	The price of the unit	Total price
a Fridge	20	2000	....
b Fan	25	200	....
c Hot air set	30	300	....
d Heater	15	200	....
e Blender	10	100	....
The sum			....

4 Put the suitable sign (> , < or =):

1 400 × 2 .... 900 × 10

2 3 × 4 × 10 .... 15 × 10

3 30 × 5 × 2 300

4 25 × 4 × 20 6000

5 700 .... 2 × 35 × 5

6 3900 .... thirty-nine tens

7. Two tens + 5 tens 80
8. 7 × 20 × 50 6000
9. Eight thousands .... 7500 + 500
10. 2000 + 200 4000
11. 4500 .... forty-five tens
12. 800 + 200 .... two thousands

5 Complete each of the following:

1. 4 × .... × 100 = 12 × .... = ...
2. 6 × 3 × 100 = ...
3. 5 tens + one ten = ...
4. .... × .... × 1000 = 3000
5. Seven tens = ...
6. 2 × 5 × 28 = 28 × .... = ...
7. 30 × 300 = ...
8. 66 × 1000 = ... thousands.
9. 10 × 1000 = ... and it is read as ....
10. 4 × 250 = ... × 500
11. 5350 meters = ... kilometers + 350 meters
12. 4 × 6 × 10 = ... × 10
13. 4 meters = ... cm
14. 200 + 300 + 500 = ...
15. 9 × .... = 900
16. 8000 = 2000 × ....

17 3 × 5 = ...

18 2000 = ... × 2000

19 Thirty tens = ...

20 650 + ... = 750

21 7 × 200 = 7 × .... × ....

22 3000 = 500 + ...

23 Twenty-four hundreds = ...

6 Using the following numbers, complete:

5 775 , 4 884 , 123 , 5 770 , 1 221

a The odd numbers are .... , ... , ...

b The even numbers are .... , ...

7 Choose the correct answer from those between brackets:

1 804 ÷ 4 = ... (21 or 201 or 402)

2 36 ÷ 6 .... 36 ÷ 4 (> or < or =)

3 3 003 .... 1 001 × 3 (> or < or =)

4 25 ÷ 5 .... 25 ÷ 25 (> or < or =)

5 8 109 ÷ 9 .... 91 (> or < or =)

6 108 ÷ 2 .... 7 (> or < or =)

7 2 061 ÷ 9 .... 2 061 × 9 (> or < or =)

8 8 080 ÷ 8 = ... (1 010 or 110 or 101)

9 460 × 10 = ... (460 or 4 600 or 406)

10 9 300 ÷ 3 = ... (100 or 3 100 or 310)

11 777 ÷ 7 = ... (101 or 111 or 11)

8

a Bakar bought 164 notebooks and divided them among his 4 brothers equally. How many notebooks did each brother take.

What each brother took = ... = ... notebooks.

The remainder = ... = ... notebooks.

b There are 150 pupils of 3rd primary in your school, they are distributed among three classes equally. How many pupils are in each class?

Solution: The number of pupils in each class = ... ÷ ....

= .... pupils.

Test on Unit (1)

1 Complete:

a. 321 × 5 = ...

b. 369 ÷ 3 = ...

c. 200 × 30 = 100 × ....

d. 4270 ÷ 7 = ...

2 Choose the correct answer:

a. The even number just after 16 is .... (18 or 20 or 22)

b. The odd number between 7 and 11 is .... (8 or 9 or 10)

c. (8 × 1000) ÷ 8 = ... (10 or 100 or 1000)

d. Eight thousands .... 7500 + 500 (< or > or =)

3 Complete using the given number:

9971 , 3250 , 5675 , 173 , 832

a. The odd numbers are .... , ... and ....

b. The even numbers are .... and ....

4

a. Ali bought 8 toys for 32 pounds. **Find the price of each toy.**

The price of each toy = ... = ... pounds.

b. Mariam bought 7 dolls for L.E. 23 each. **Find the price of dolls.**

The price of dolls = ... = L.E. ....

Unit Two



Geometry

Lessons of the unit

- Lesson 1: The perimeter.
- Lesson 2: The area.

Lesson 1

The perimeter

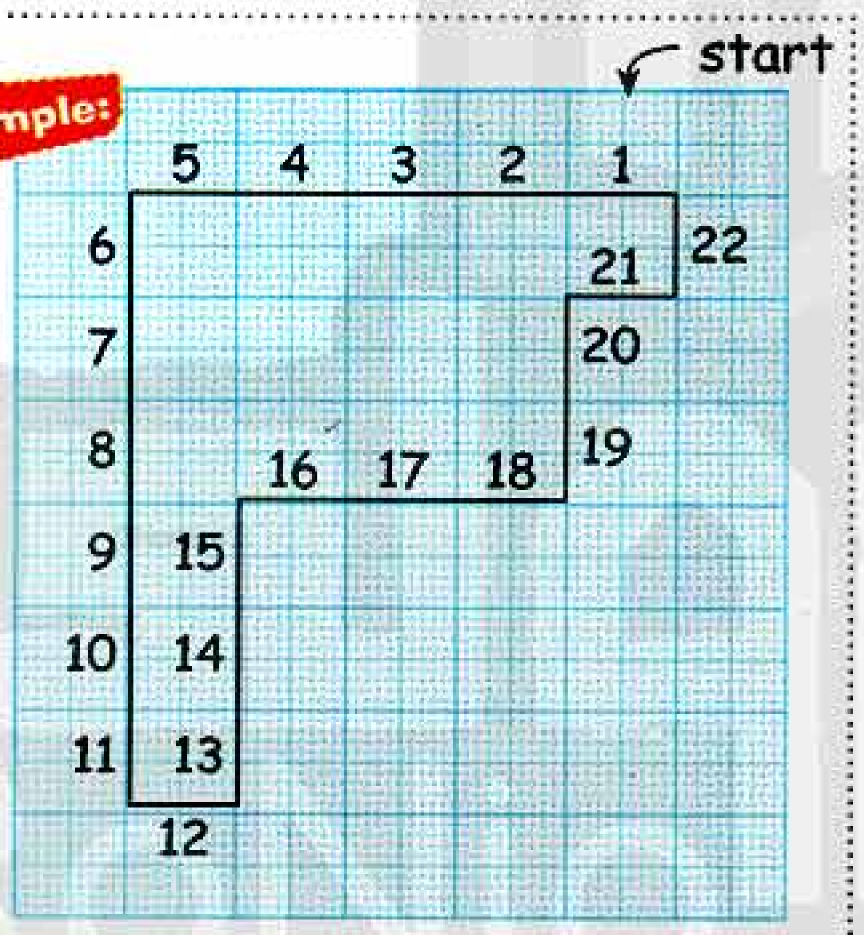
You know that

the perimeter of a shape is the length of the line that outlines that shape.

First Calculate the perimeter of each of the following figures as the example:

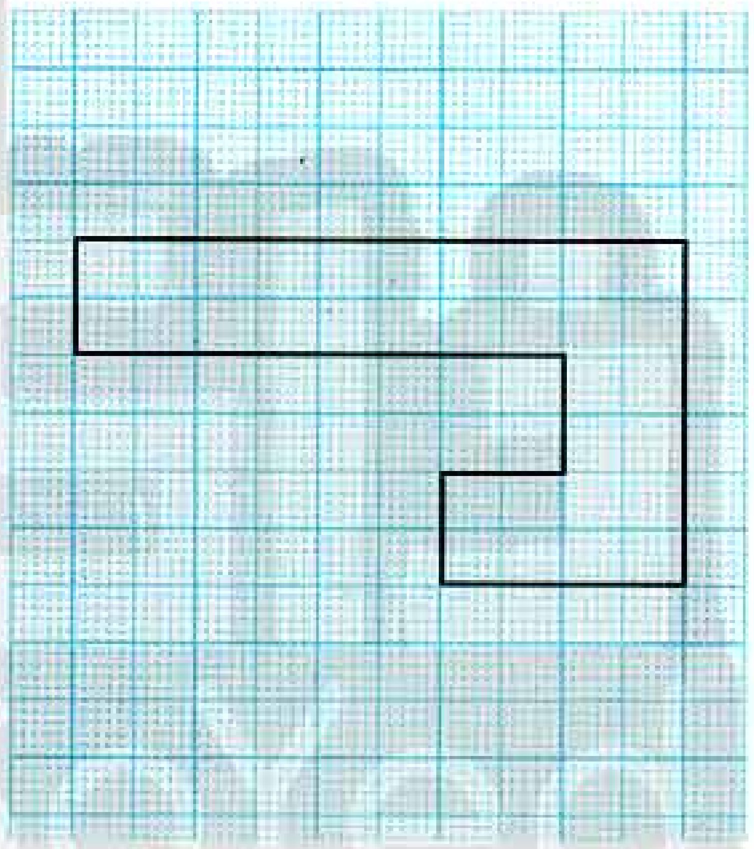
(Taking the length of the side of the smallest square as a unit).

Example:



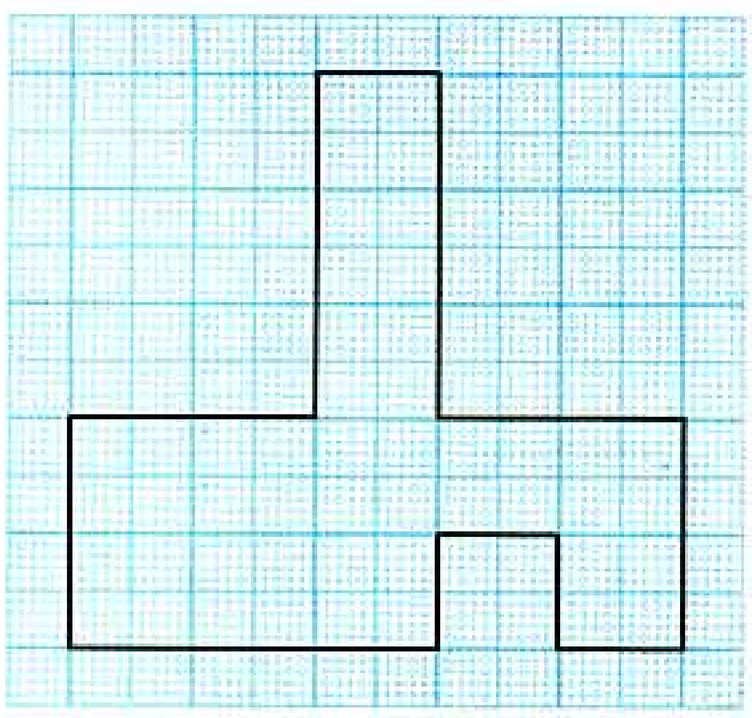
The perimeter = **22** units

a



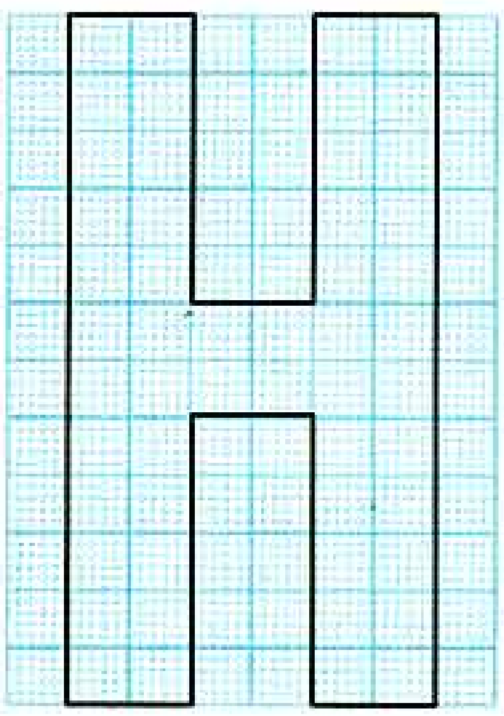
The perimeter = ... units

b



The perimeter = ... units

c

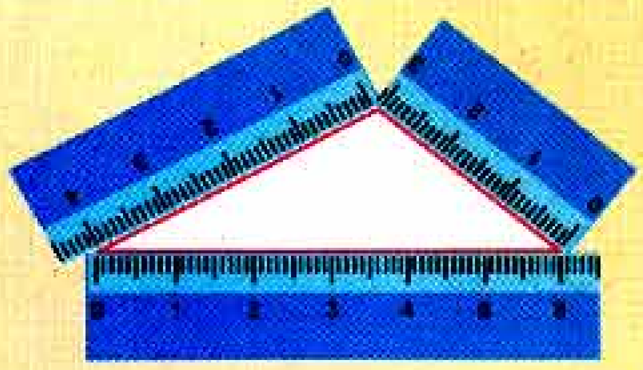


The perimeter = ... units

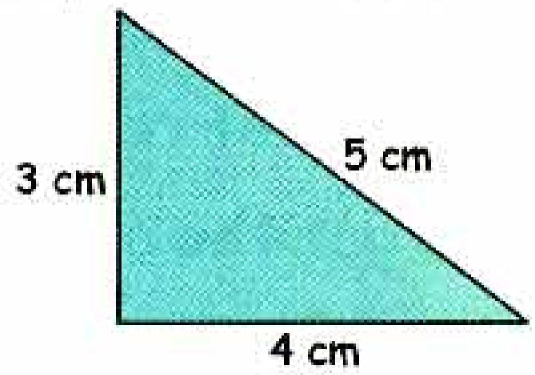
Second

1 Find the perimeter of each of the following figures as the example (consider 1 cm is the unit of length):

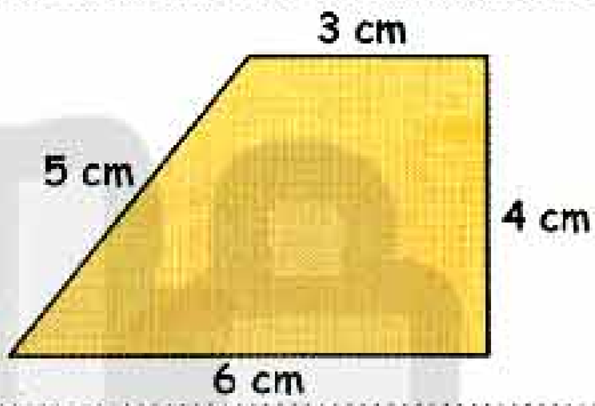
Example: the lengths of the triangle are:
6 cm, 4 cm and 3 cm.
The perimeter = 6 + 4 + 3 = 13 cm



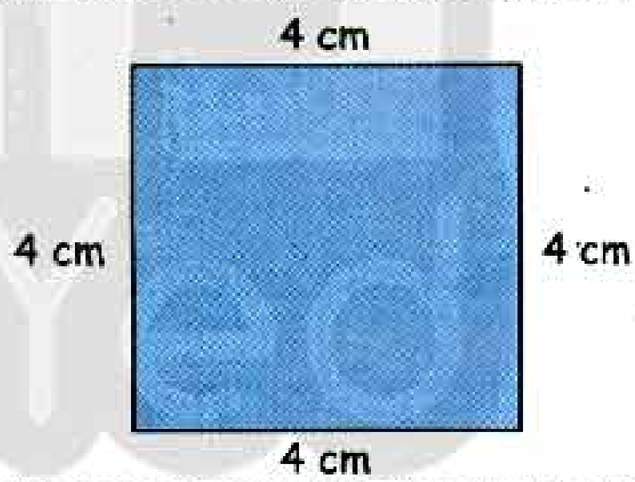
a The perimeter = ... + ... + ...
= .... cm



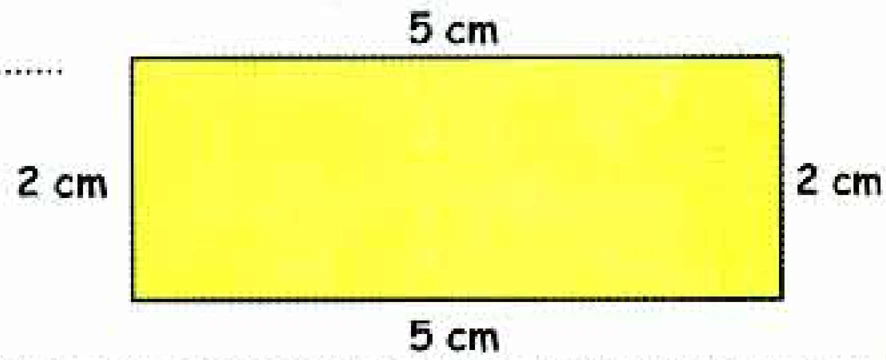
b The perimeter = ... + ... + ... + ...
= .... cm



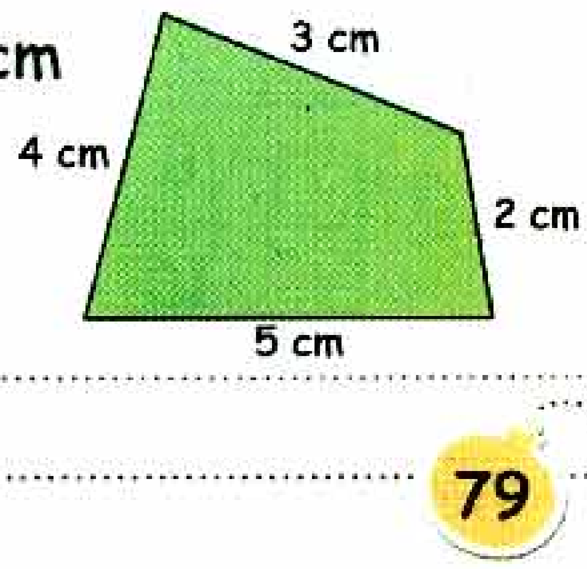
c The perimeter = ... + ... + ... + ...
= .... cm



d The perimeter = ... + ... + ... + ...
= .... cm

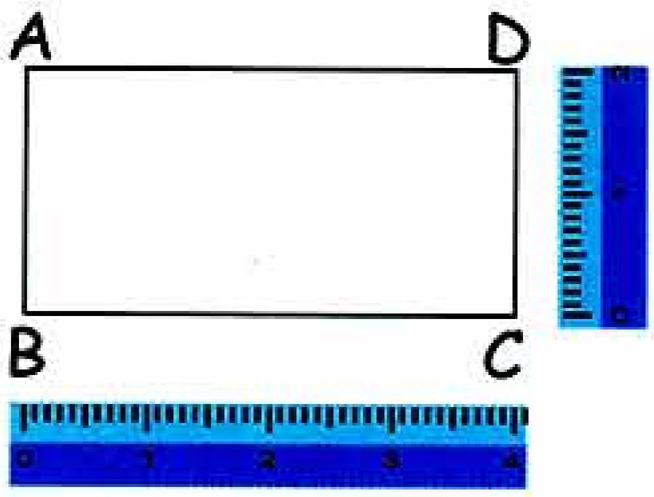


e The perimeter = ... + ... + ... + ... = ... cm



So the perimeter of any polygon equals the sum of its side lengths.

2 The following figure represents a rectangle ABCD, by using the figure. Complete:



The width of rectangle is DC = 2 cm   The length of rectangle is BC = 4 cm

So we get the other two sides.

AB = 2 cm and AD = 4 cm

So the perimeter of rectangle = 2 + 4 + 2 + 4 = 12 cm

= 2 × (2 + 4) = 2 × 6 = 12 cm

then: the perimeter of the rectangle = (length + width) × 2

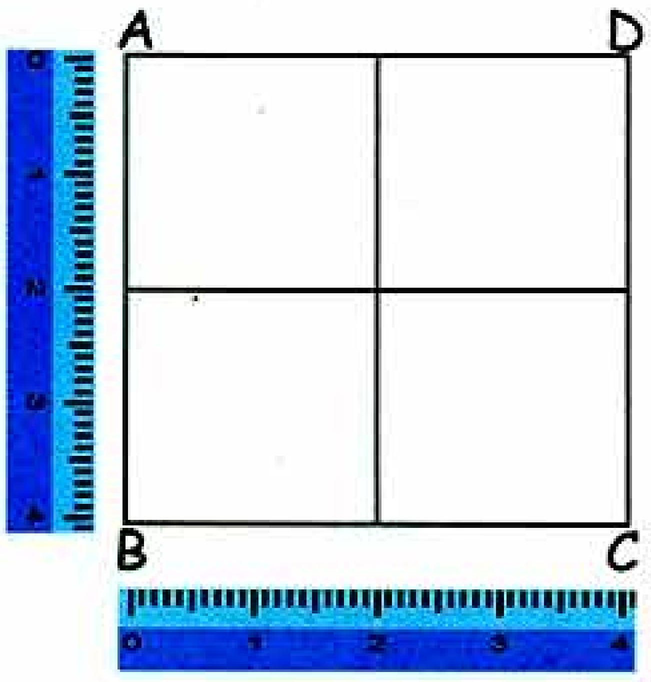
Note: AD = BC and AB = DC

$\overline{AD}$, $\overline{AB}$ are called the two dimensions of the rectangle.

Complete as the example:

	Length	Width	The perimeter of rectangle (L+W) × 2
Example:	3	2	(3 + 2) × 2 = 10
	4	3	....
	5	2	....
	7	5	....
	8	2	....
	10	7	....

3 The following figure represents a square, complete using the figure.



AB = 4 cm

BC = 4 cm

then: CD = ... cm

DA = ... cm

All sides of the square are equal in length

the perimeter = 4 + 4 + 4 + 4 cm

= 4 × 4 = ... cm

So the perimeter the square = side length × 4.

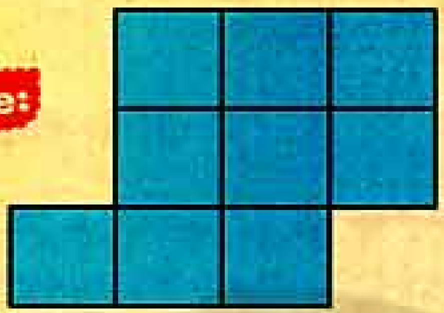
Complete as the example:

Side in cm	The perimeter of the square
Example: 7	7 × 4 = 28 cm
3	....
5	....
6	....
10	....
9	....

Exercise 1 The perimeter

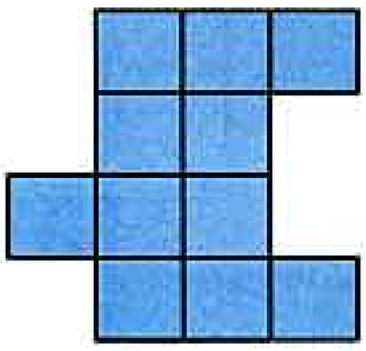
1 Calculate the perimeter of each of the following figures as the example:





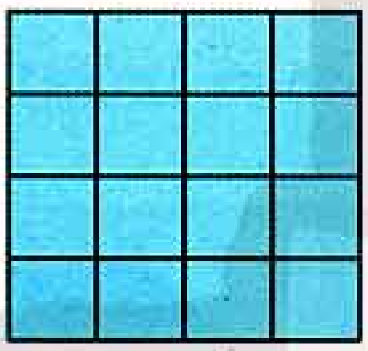
The perimeter = 14 units.

a



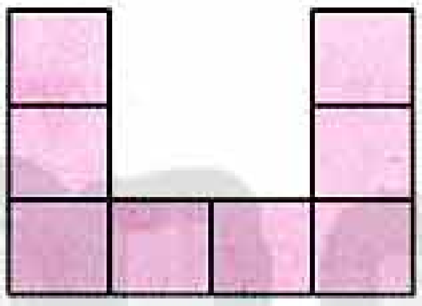
The perimeter = ... units.

b



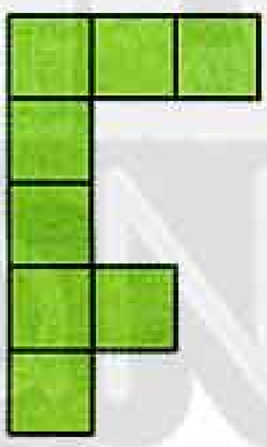
The perimeter = ... units.

c



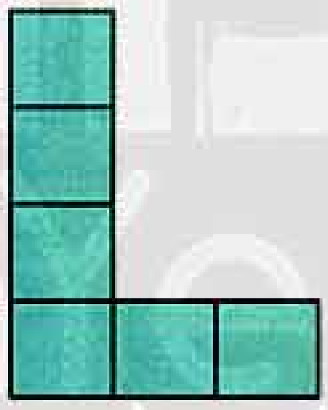
The perimeter = ... units.

d



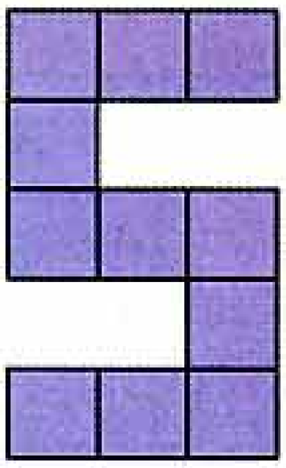
The perimeter = ... units.

e



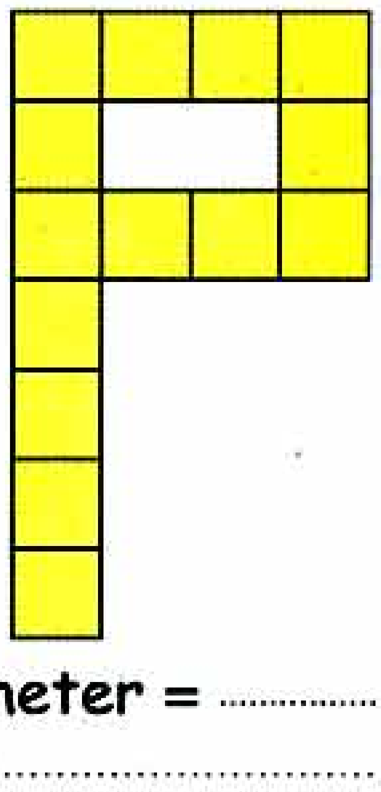
The perimeter = ... units.

f



The perimeter = ... units.

g

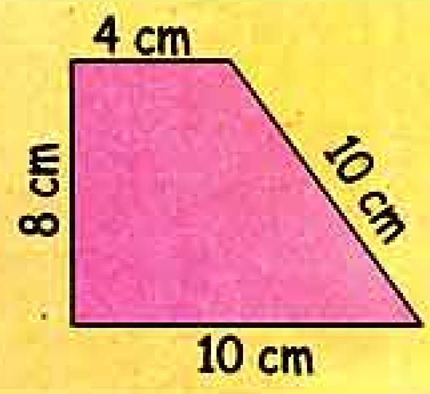


The perimeter = ... units.

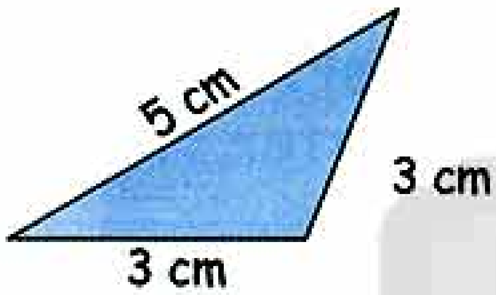
2 Calculate the perimeter of each of the following figures as the example:

Example:

The perimeter = 4 + 10 + 10 + 8 = 32 cm



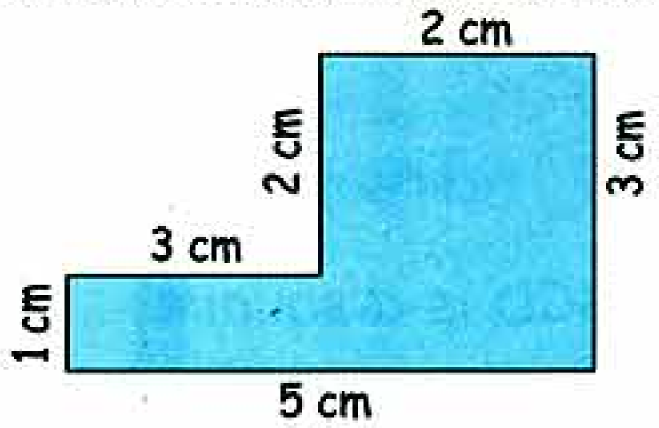
a



The perimeter = ... + ... + ...

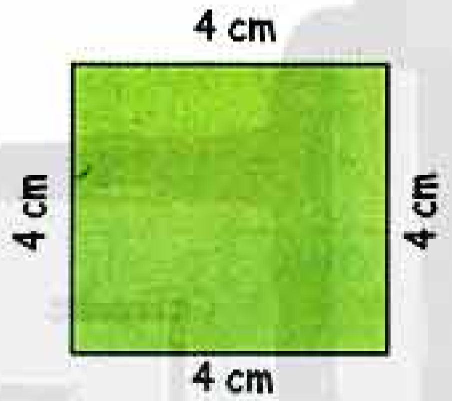
= .... cm.

b



The perimeter = ... cm.

c



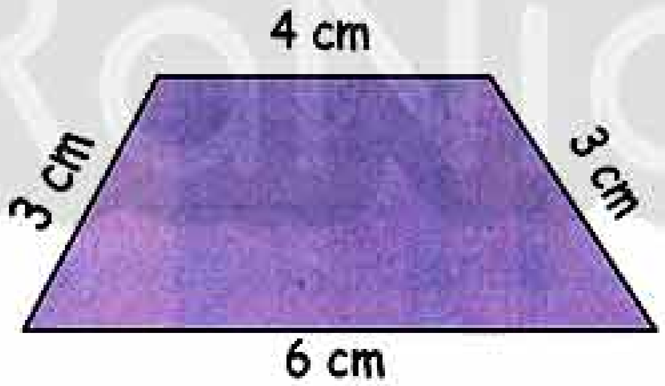
The perimeter = ... cm.

d



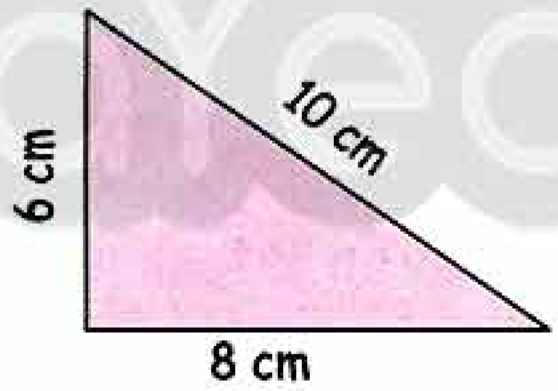
The perimeter = ... cm.

e



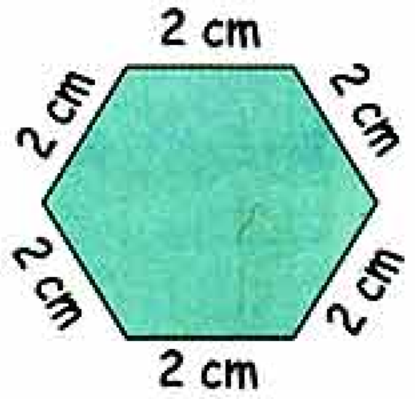
The perimeter = ... cm.

f



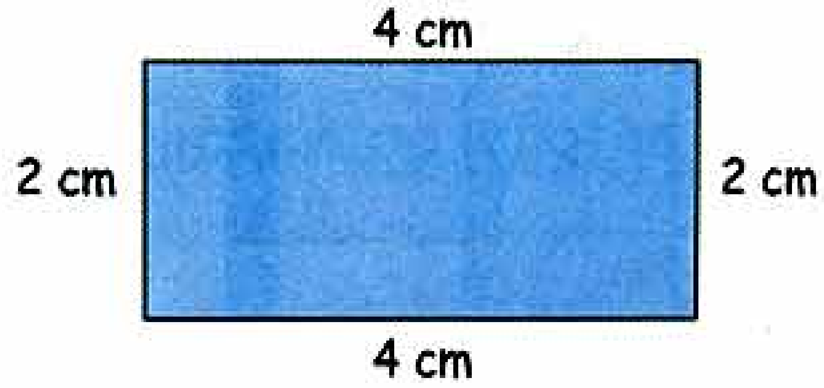
The perimeter = ... cm.

g



The perimeter = ... cm.

h

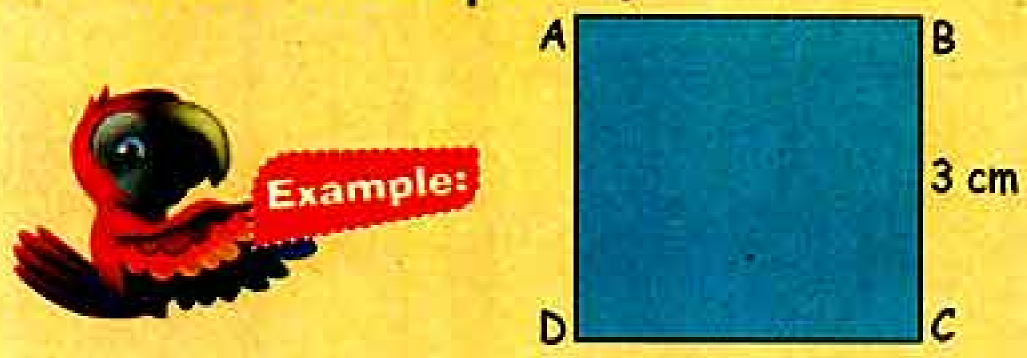


The perimeter = ... cm.

3 Complete each of the following as the example:

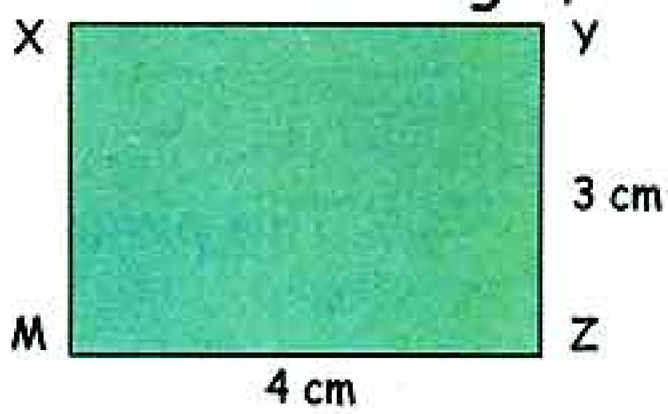
If ABCD is a square,

Example:



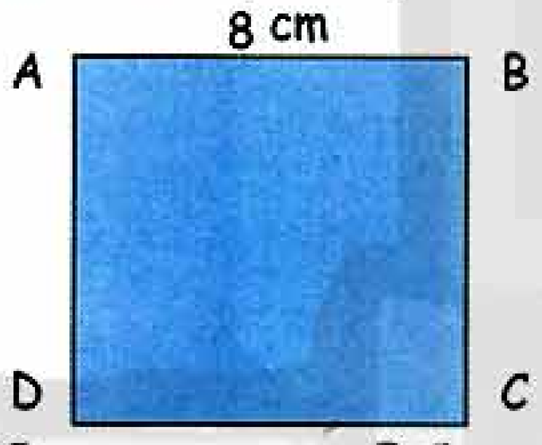
then AB = 3 cm, BC = 3 cm
DC = 3 cm
The perimeter = 12 cm

a If XYZM is a rectangle,



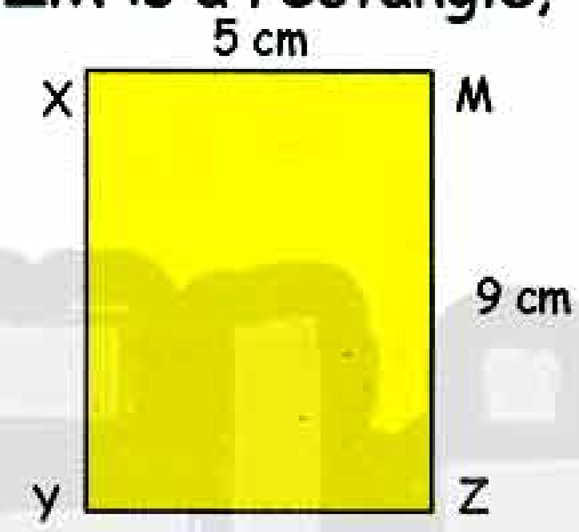
then XY = ... cm, XM = ... cm
The perimeter = ... cm

b If ABCD is a square,



then DC = ... cm , BC = ... cm
AD = ... cm
The perimeter = ... cm

c If XYZM is a rectangle,



then XY = ... cm, YZ = ... cm
The perimeter = ... cm

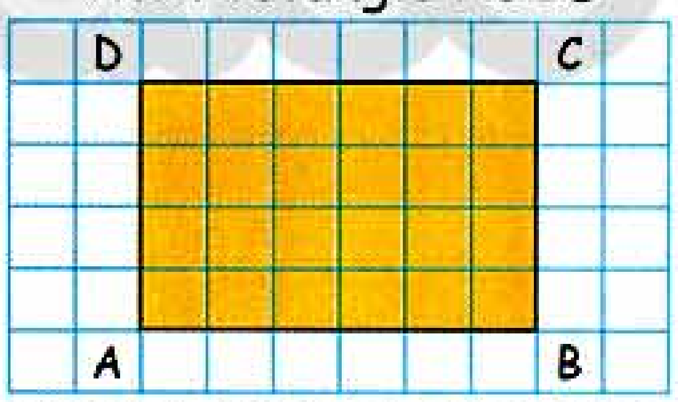
4 Calculate the perimeter of each of the following figures:

a The perimeter = ... + ... + ... + ...
= .... units

Or

The perimeter = (........ + ...) x 2
= .... units

The rectangle ABCD

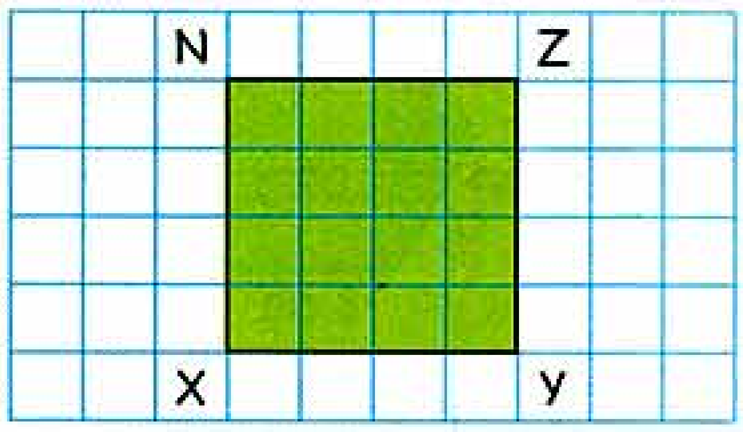


b The perimeter = ... + ... + ... + ...
= .... units

Or

The perimeter= .... x 4 = ... units

The square XYZN



5 Complete each of the following as the example:



Example: A square of side length 5 cm.
The perimeter = 5 x 4 = 20 cm

a A square of side length 8 cm.
The perimeter = ... × .... = ... cm.

b A square of side length 30 metres.
The perimeter = ... × .... = ... metres.

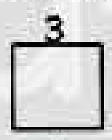
c A rectangle of length 5 cm and width 3 cm.
The perimeter = (............ + ...) × .... = ... cm.

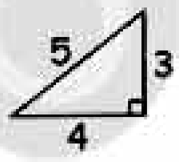
d A rectangle of length 20 cm and width 10 cm.
The perimeter = (............ + ...) × .... = ... cm.

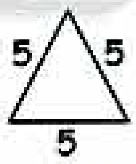
e A rectangle of two dimensions 7 cm and 3 cm.
The perimeter = (............ + ...) × .... = ... cm.

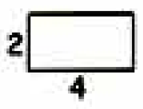
f A rectangle of two dimensions 10 cm and 8 cm.
The perimeter = (............ + ...) × .... = ... cm.

6 Put < , > or = :

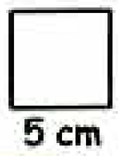
a The perimeter of square 

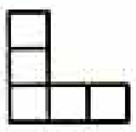
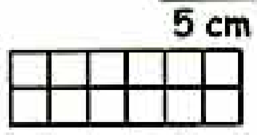
.... the perimeter of 

b The perimeter of triangle 

.... the perimeter of rectangle 

c The perimeter of rectangle 

.... the perimeter of square 

d The Perimeter of figure  .... the perimeter of 

7 Calculate the perimeter of the triangle whose side lengths are 6 cm, 8 cm and 6 cm.

Its perimeter = ... + ... + ... = ... cm.

8 A piece of land in the shape of a triangle, its perimeter is 500 metres. If the sum of two side lengths in it is 340 metres, then find the length of the third side.

The length of the third side = ... = ... metres.

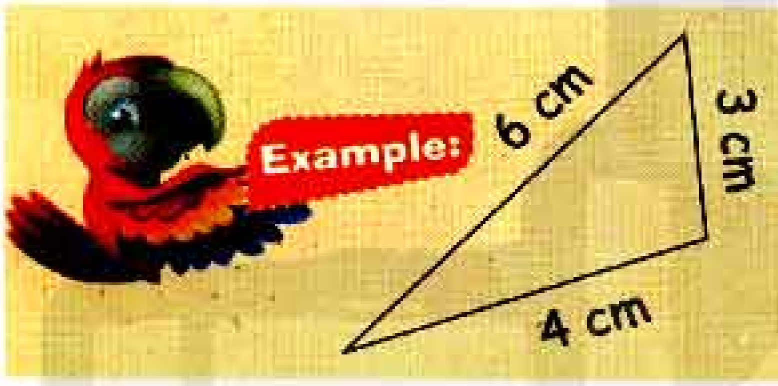
9 The square whose side length is 8 cm. Find its perimeter.

The perimeter of the square = ... = ... cm.

10 Find the perimeter of the rectangle whose length is 10 cm and its width is 7 cm.

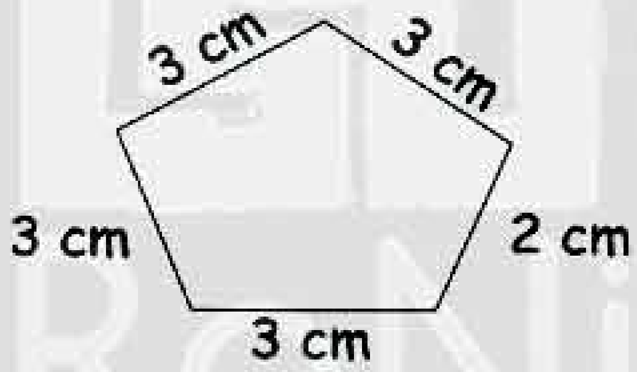
The perimeter = ... = ... cm.

11 **Calculate the perimeter of each of the following figures as the example:**



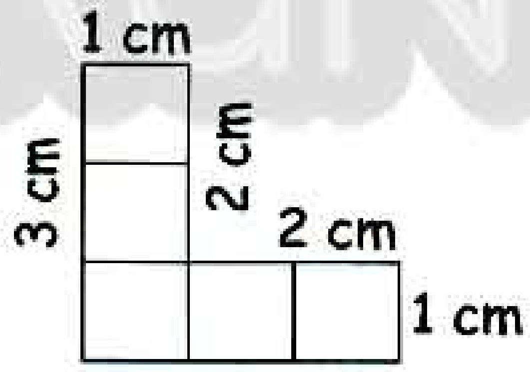
The perimeter = 6 + 3 + 4 = 13 cm

a



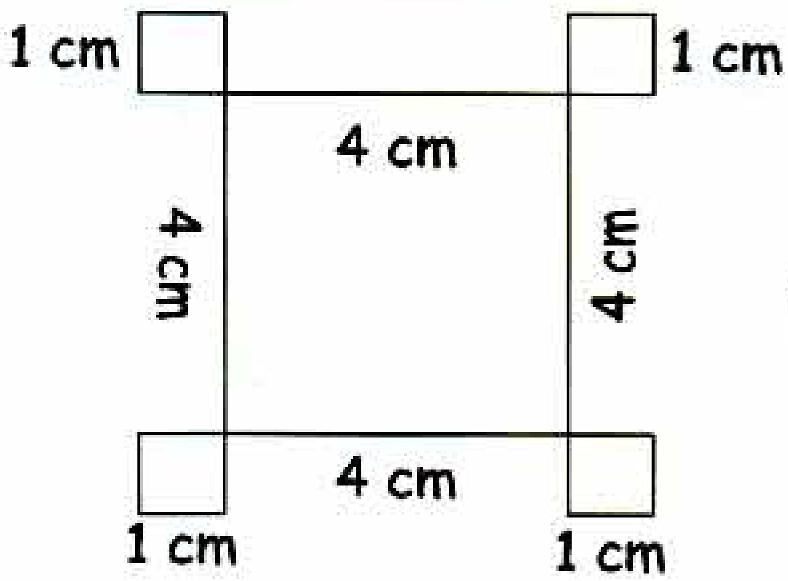
the perimeter = ... cm

b



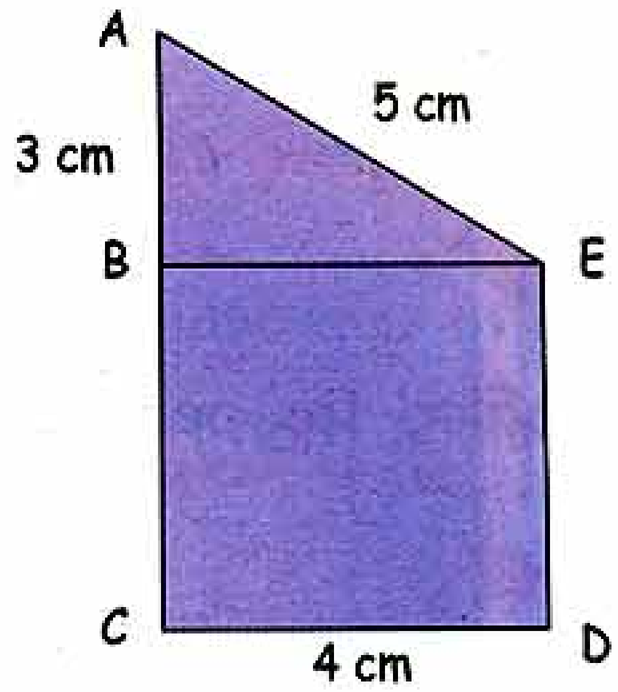
the perimeter = ... cm

c



the perimeter = ... cm

12 In the following shape BCDE is a square and AB = 3 cm, AE = 5 cm and CD = 4 cm. Calculate:



a The perimeter of the square BCDE.

= .... × .... = ... cm

b The perimeter of the triangle ABE.

= .... + ... + ... = ... cm

c The perimeter of the whole shape ACDE.

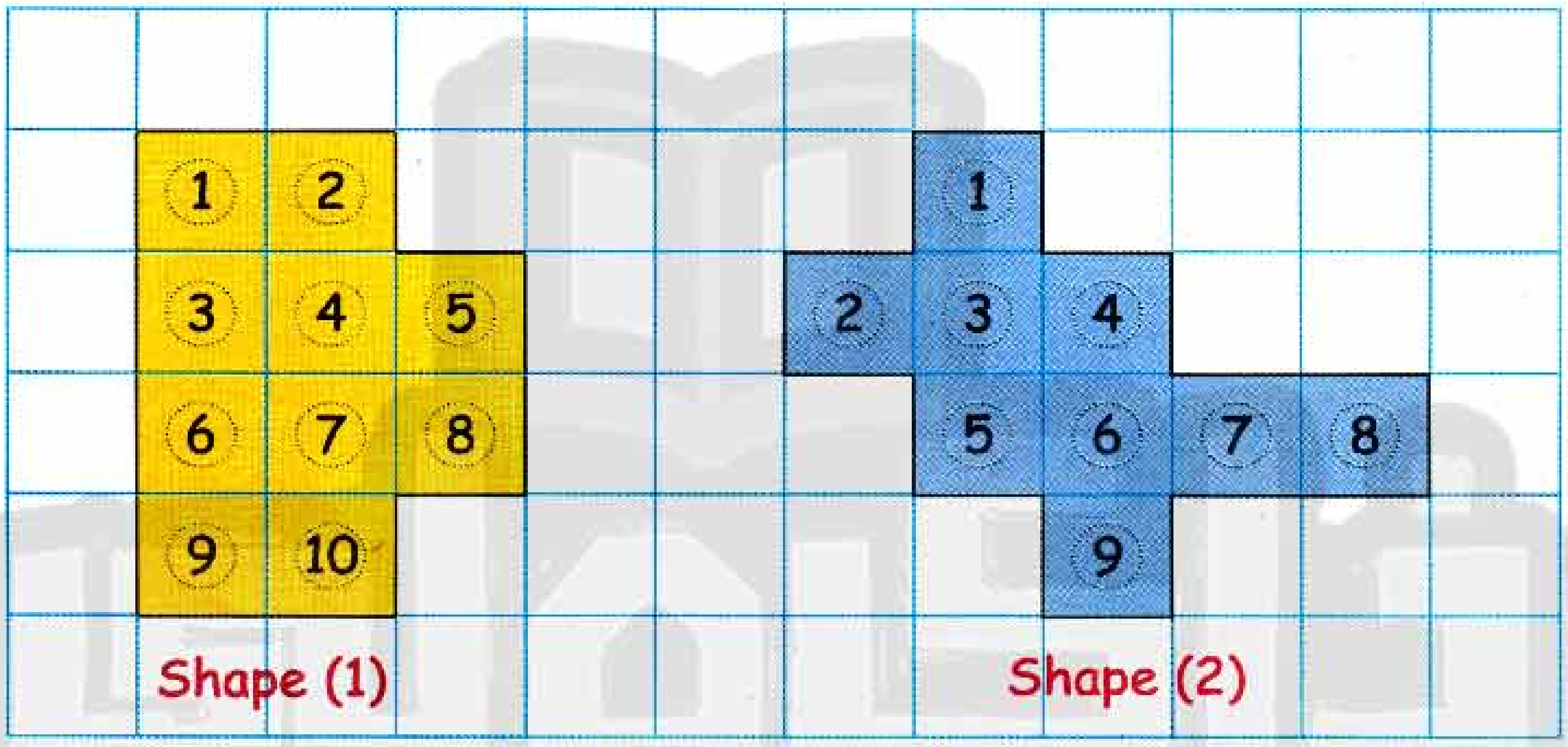
= .... + ... + ... + ... = ... cm

Lesson 2

The area

Notice and think:

How to know which of the following two shapes occupies a bigger part of the plane than the other.



Definition:

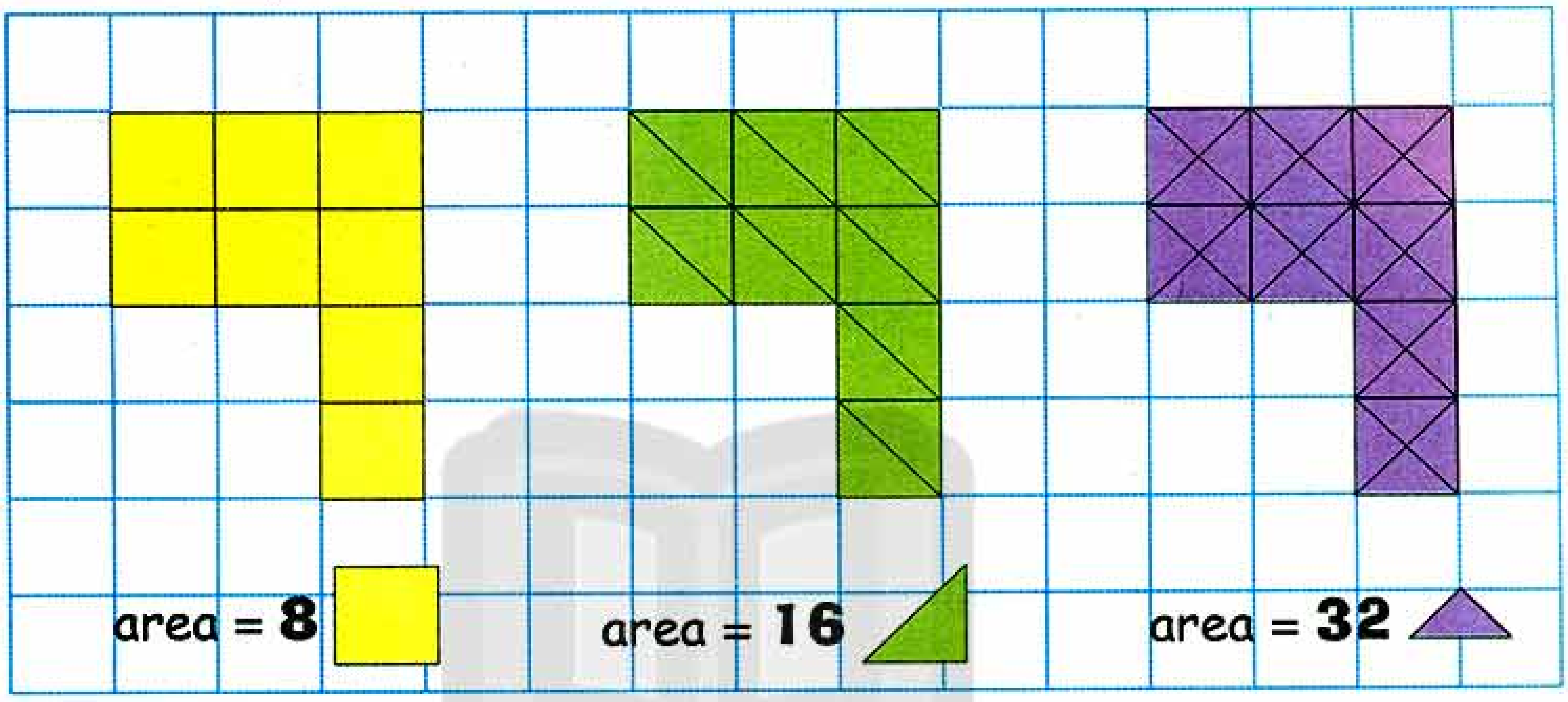
The area of a shape is the number of units inside the surface of that shape.

We find that the number of small squares in shape (1) = 10 ☐,

the number of small squares in shape (2) = 9 ☐.

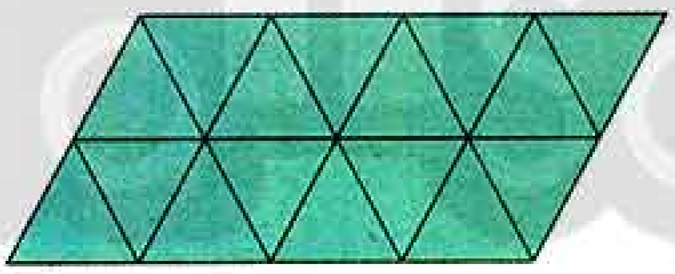
Then, shape (1) occupies a part of the plane more than the part that the shape (2) occupies. Then, the area of shape (1) is bigger than area of shape (2).

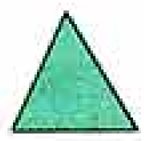
Important note:

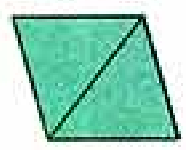


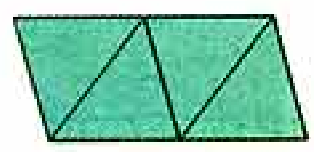
The area of a shape depends on the used unit. If this unit is changed, the area of the shape is also changed.

Find the area of the following figure:



The area of the figure = ... 

= .... 

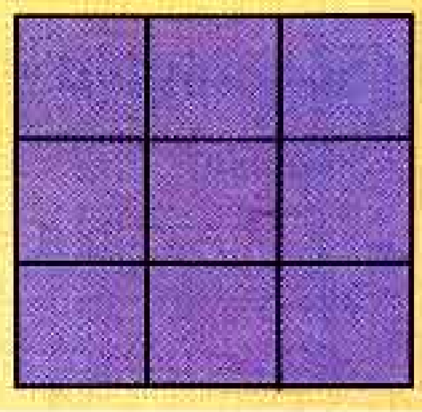
= .... 

Exercise 2 The area

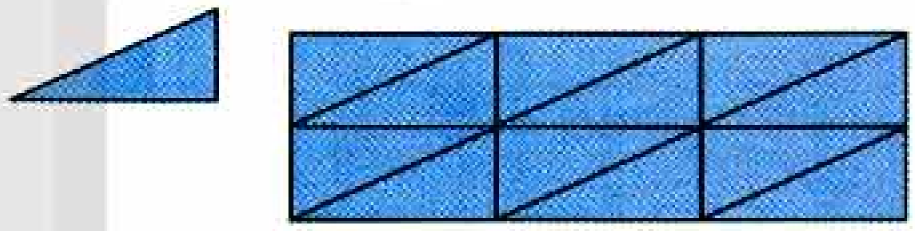
1 Complete each of the following as the example:

Example:

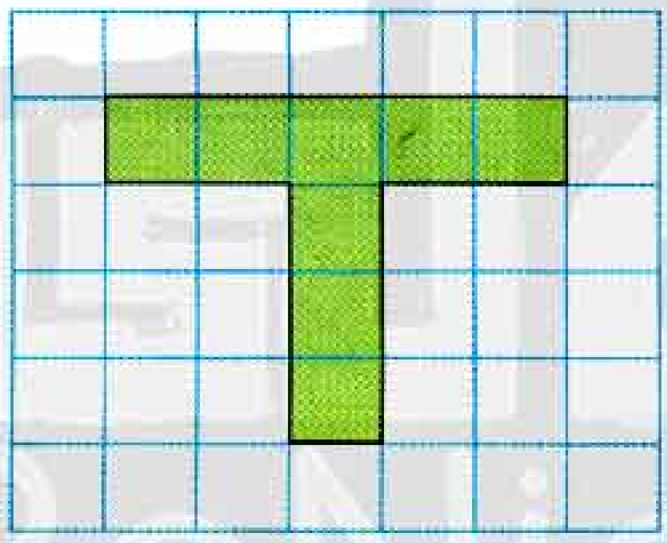
The area of the opposite figure = 9



a The area of the opposite figure = ...

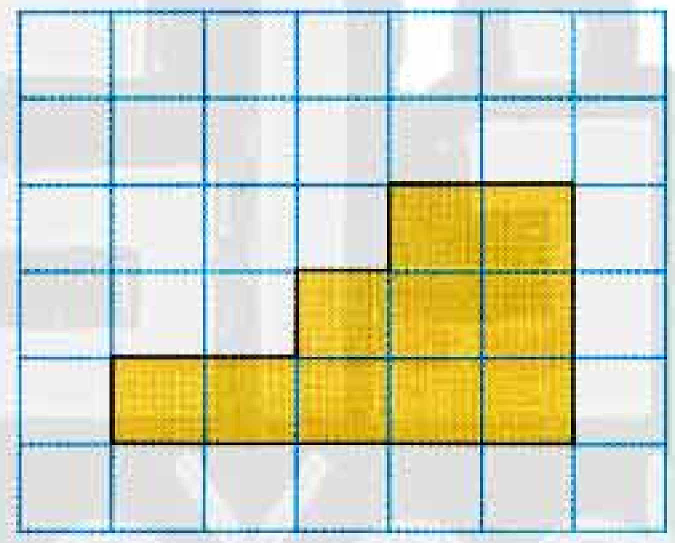


b



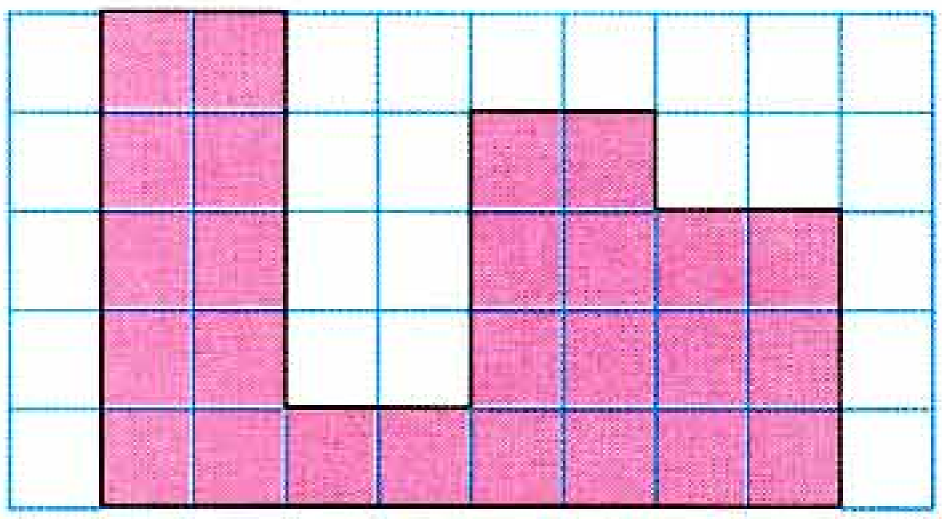
The area = ...

c



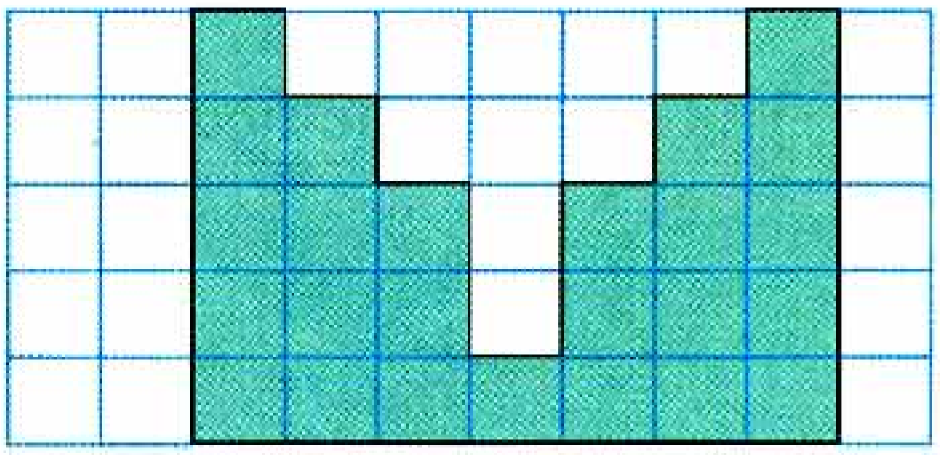
The area = ...

d



The area = ...

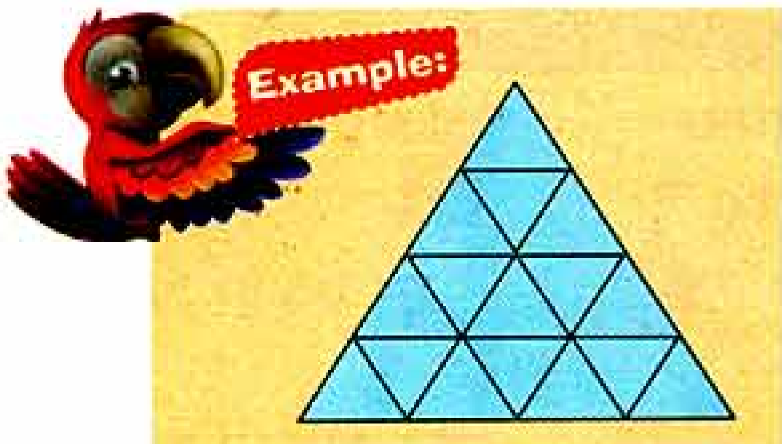
e

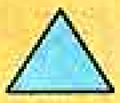


The area = ...

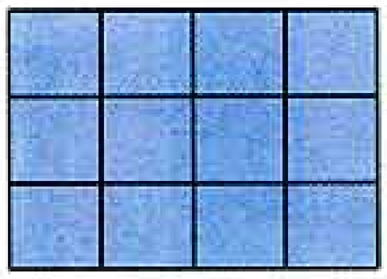
2 Calculate the area as the example:

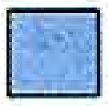
Example:



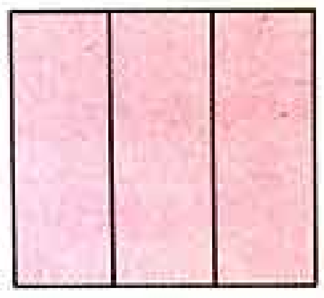
The area = 16 

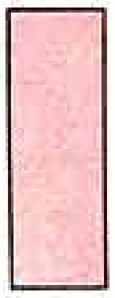
a



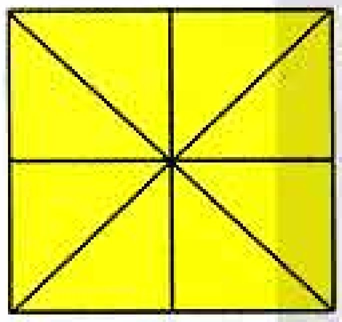
The area = ... 

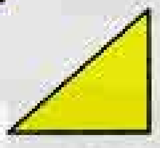
b



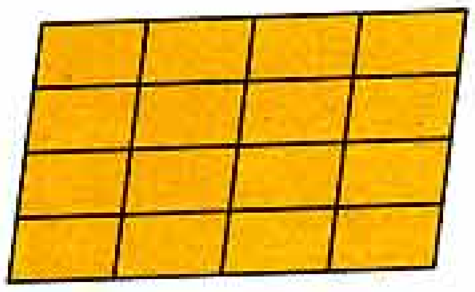
The area = ... 

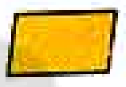
c



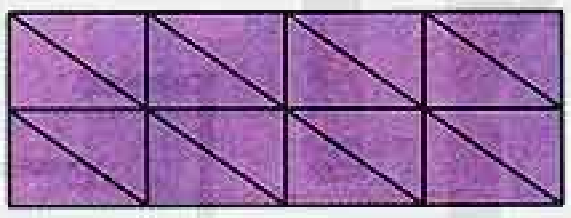
The area = ... 

d



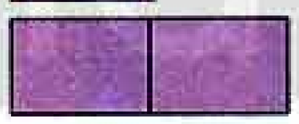
The area = ... 

e

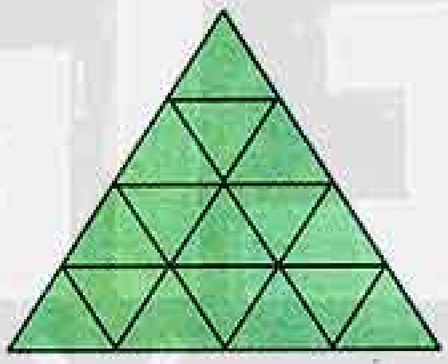


The area = ... 

= .... 

= .... 

f

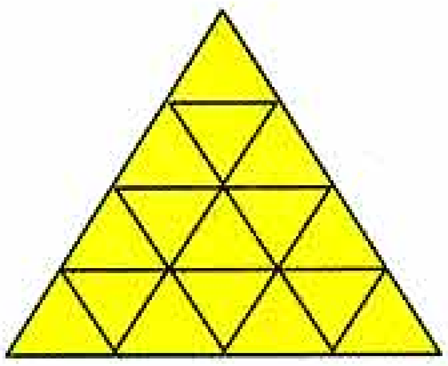


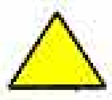
The area = ... 

= .... 

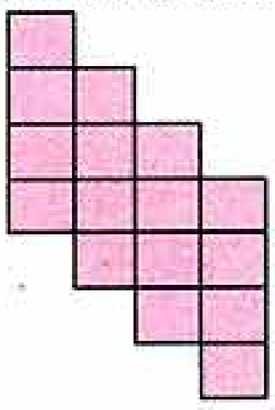
3 Calculate the area of each of the following shapes:

a



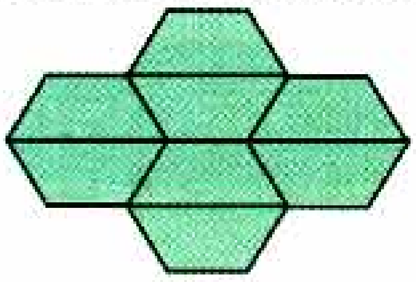
The area = ... 

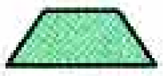
b

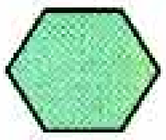


The area = ... 

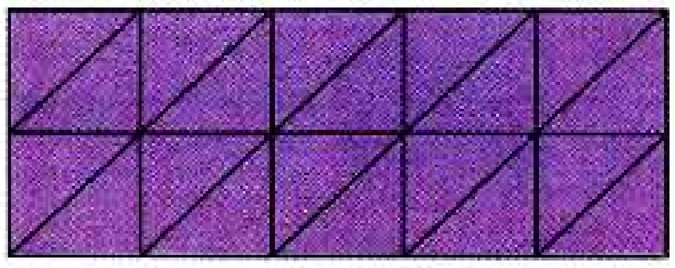
c

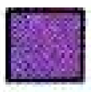


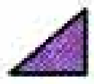
The area = ... 

and = ... 

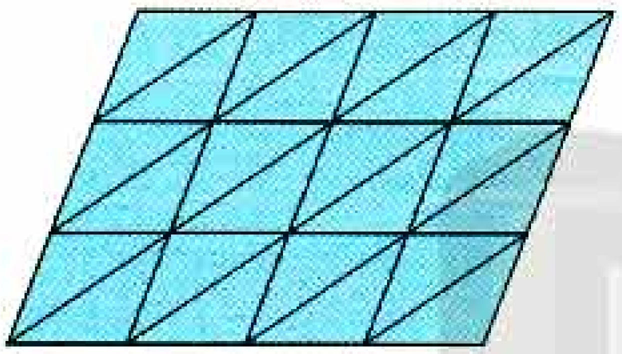
d



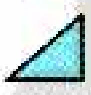
The area = ... 

= .... 

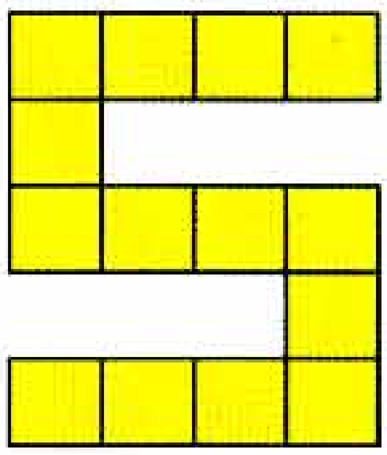
e

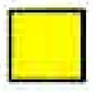


The area = ... 

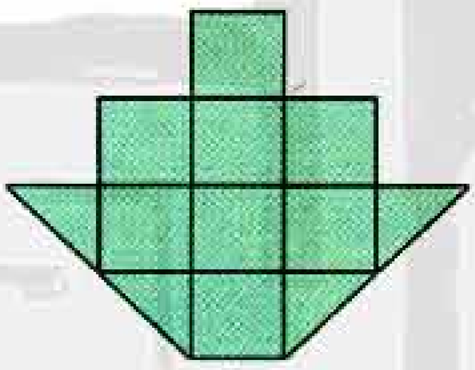
= .... 

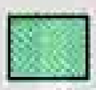
f

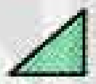


The area = ... 

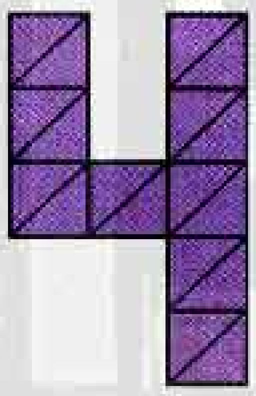
g

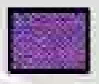


The area = ... 

= .... 

h

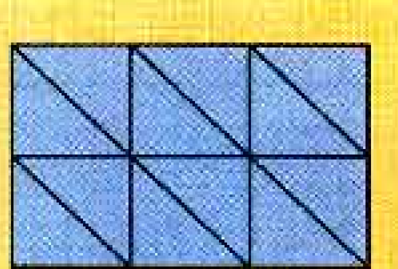


The area = ... 

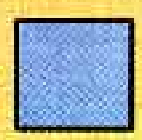
= .... 

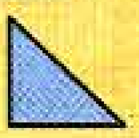
4 Use the following shapes to complete as the example:



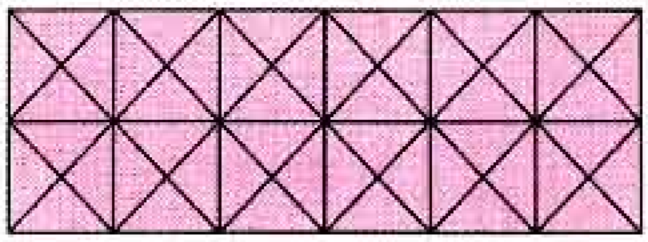


The perimeter = 10 units of length.

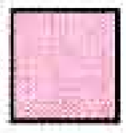
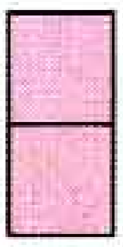
The area = 6 

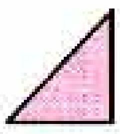
= 12 

a

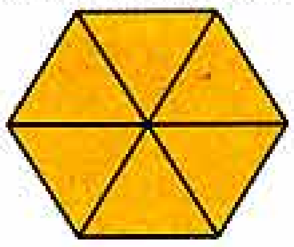


The perimeter = ... units of length.

The area = ...  = ... 

= ......  = ... 

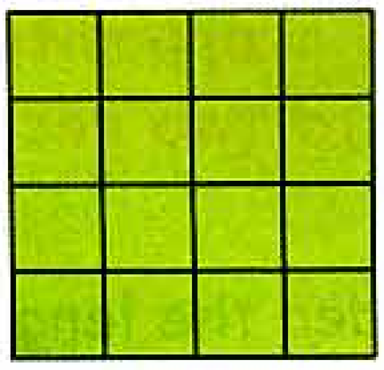
b



The perimeter = ... units of length.

The area = ... △ = ... ◇

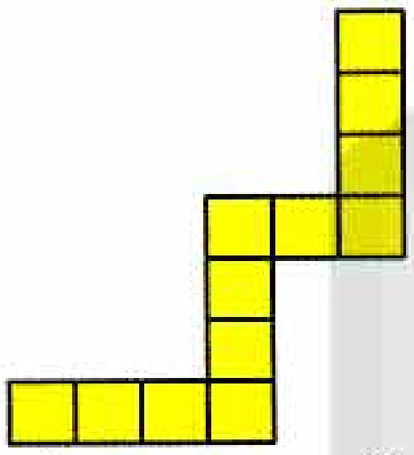
c



The perimeter = ... units of length.

The area = ... □

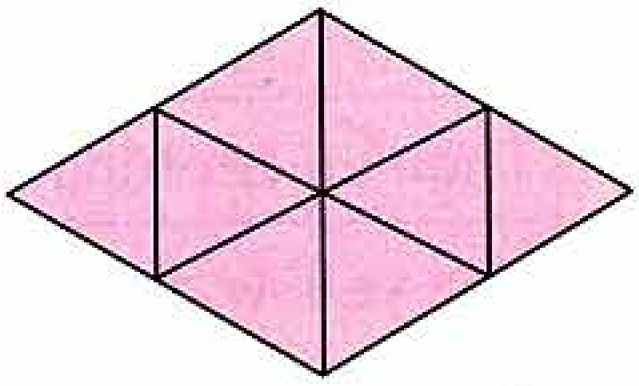
d



The perimeter = ... units of length.

The area = ... □ = ... ▭

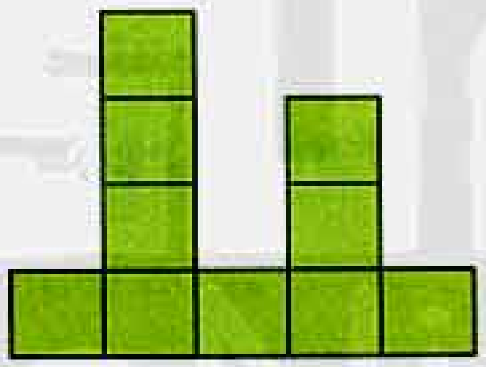
e



The perimeter = ... units of length.

The area = ... ▷ = ... ◇

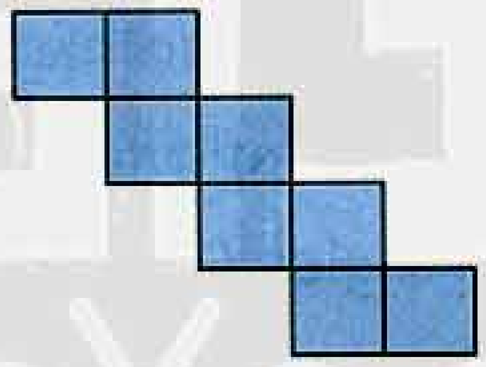
f



The perimeter = ... units of length.

The area = ... □

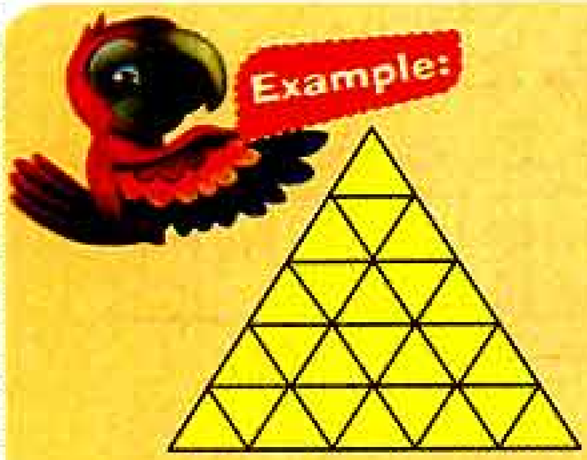
g



The perimeter = ... units of length.

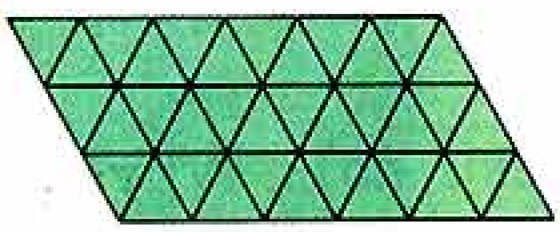
The area = ... □

5 Calculate the area of each of the following figures as the example:



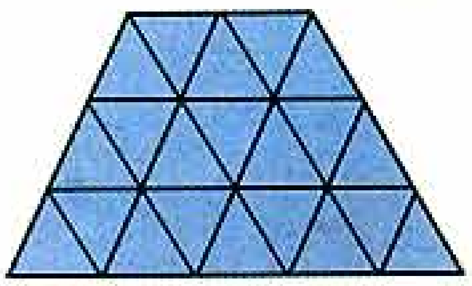
The area = 25 △

a



The area = ... △

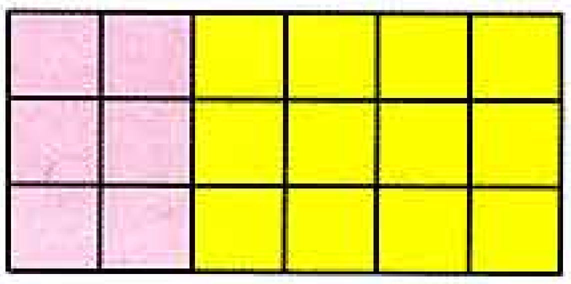
b



The area = ... △

6 The opposite figure represents a large rectangle divided into two rectangles:

a Consider the length of side of the small square a unit of length and its area a unit of area, then complete the following table:



	Perimeter	Area
The red rectangle	....	....
The yellow rectangle	....	....
The large rectangle	....	....

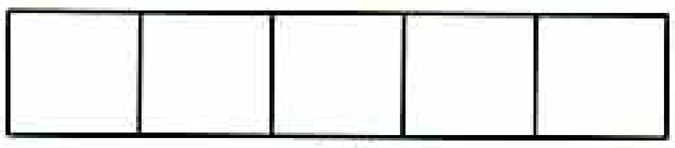
b **Answer with Yes or No and explain why:**

1- The perimeter of the large rectangle = the sum of the perimeters of the two rectangles (Yes / No). ....

2- The area of the large rectangle = the sum of the areas of the two rectangles (Yes / No). ....

7 Which of the following figures has...?

1 The same periemter.

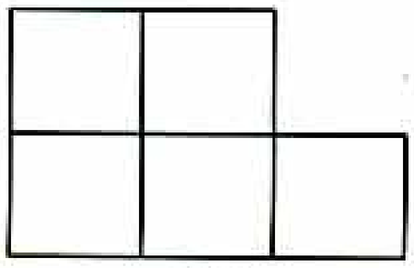


(1)

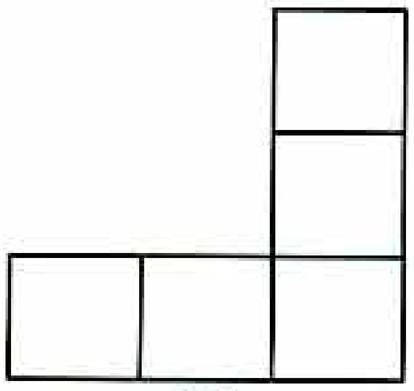
2 The same area.

3 Do the three figures have the same area?

(yes / no)... Why?



(3)



(2)

8 Draw two figures with the same area but not the same perimeter.

9 Draw two figures with the same area and the same perimeter.

10 Using the following lattice:

a Draw a figure whose perimeter is 8 length units.

b Draw a figure whose area is 8 length units.

11 Use the following lattice to draw:

a a shape with area 10 ☐, then calculate its perimeter,

the perimeter = ... units.

b a shape with area 14 ☐, then calculate its perimeter,

the perimeter = ... units.

General Exercises from the School Book

Answer the following questions:

1 Find the perimeter of the square whose side length is 3 cm.

The perimeter of the square = ... × .... = ... cm.

2 Find the perimeter of the triangle whose side lengths are 5 cm, 7 cm, and 10 cm.

The perimeter of the triangle = ... + ... + ... = ... cm.

3 The side lengths of a triangle are equal, each of them equals 7 cm.

Find the perimeter of the triangle.

The perimeter of the triangle = ... + ... + ... = ... cm.

Or the perimeter of the triangle = ... × .... = ... cm.

What do you notice?

4 A rectangle, its length = 5 cm and its width = 3 cm. Calculate its perimeter.

The perimeter = ... = ... cm.

5 ABC is a triangle where AB = 3 cm, AC = 5 cm, and BC = 4 cm. Calculate:

The perimeter of triangle ABC:

The perimeter of Δ ABC = ...

6 Complete: The perimeter of any polygon = ...

The perimeter of the square = ... × side length.

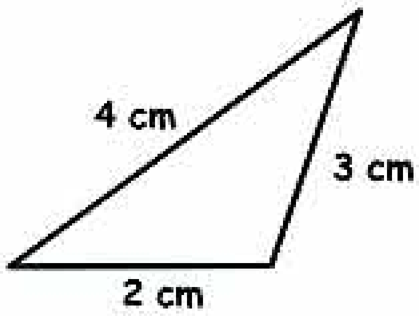
The perimeter of rectangle = (L + ...) × ....

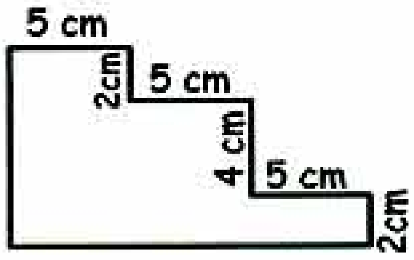
7 A triangular piece of land, its perimeter = 100 m.

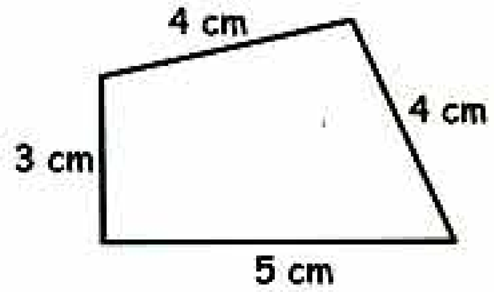
If the sum of the length of two sides of it = 70 m, find the length of the third side.

The length of the third side = ... – .... = ... m.

8 Calculate the perimeter of each of the following shapes using the lengths shown on each shape.





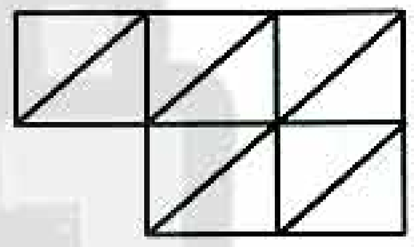


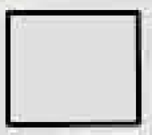
a its perimeter= .... cm. **b** its perimeter= .... cm. **c** its perimeter= .... cm.

9 A triangular piece of land, the sum of its two side lengths is 90 m, and its perimeter is 120 m. Find the length of its third side.

The lengths of the third side = ... – .... = ... m.

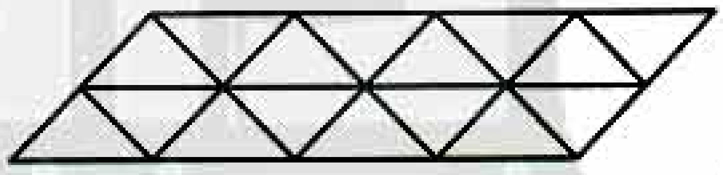
10 In the opposite figure, find:



a The area of the figure = ... 

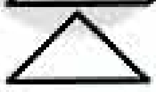
b The perimeter of the figure = ... length units.

11 In the opposite figure, find:



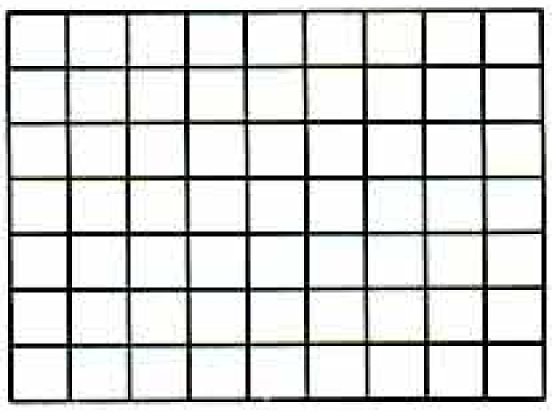
a The perimeter of the figure = ... length units.

b The area of the figure = ... 

c The area of the figure = ... 

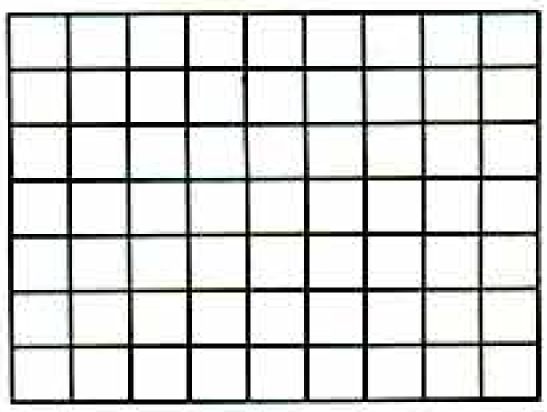
12 On the square lattice:

Draw a figure of area 10 square units.

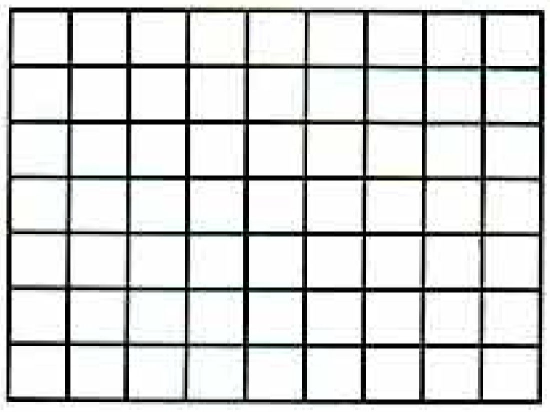


13 On the square lattice:

Draw a figure of perimeter 12 length units.



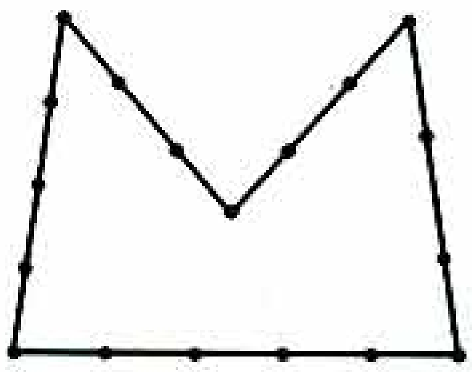
14 On the square lattice draw:



a A figure of perimeter 8 length units.

b A figure of area 9 square units.

15 In the opposite figure:



If the distance between any two consecutive points is one cm.

Find the perimeter of the figure.

The perimeter = ... = ... cm.

16 Choose the correct answer from those between brackets:

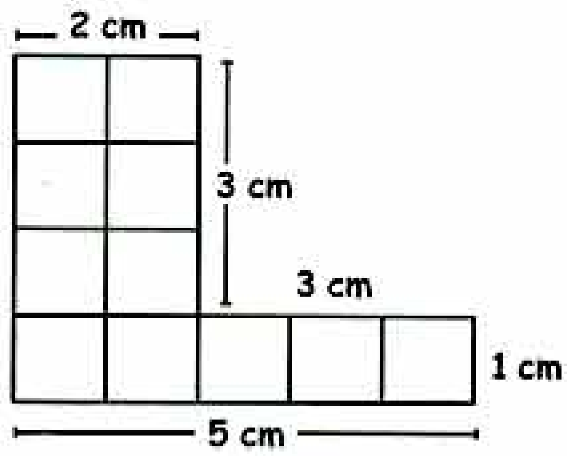
a The perimeter of the square whose side length = 1 cm is .... cm.

(1 or 4 or $\frac{1}{4}$)

b The rectangle whose length is 4 cm, and its width = 2 cm, its perimeter = ... cm. (12 or 14 or 16)

c The perimeter of the triangle whose side lengths are 3 cm, 4 cm, and 7 cm equals .... cm. (10 or 14 or 11)

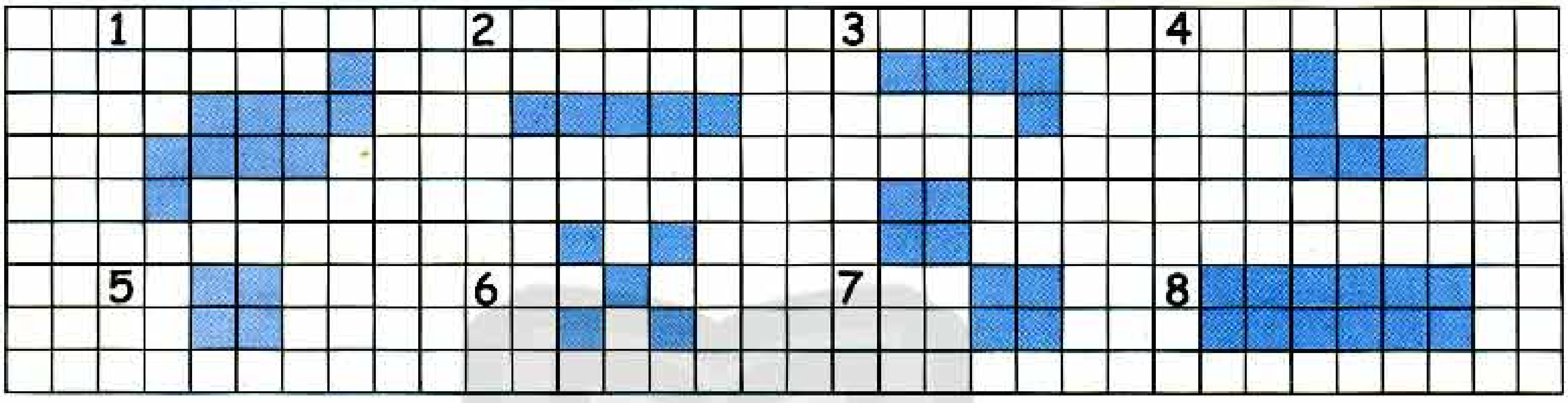
17 Calculate the perimeter of the opposite figure.



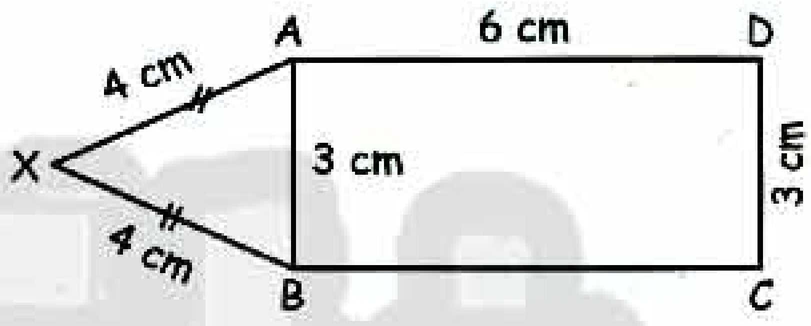
The perimeter = ... cm.

18 In the following lattice:

Calculate the area of each of the shaded figures then determine the equal areas in square units considering □ as an area unit.



19 In the following figure, find:



1. The perimeter of the rectangle ABCD = ... cm.
2. The perimeter of Δ ABX = ...
3. The perimeter of the figure AXBCD = ...

Test on Unit (2)

1 Complete the table below, using the following figures:

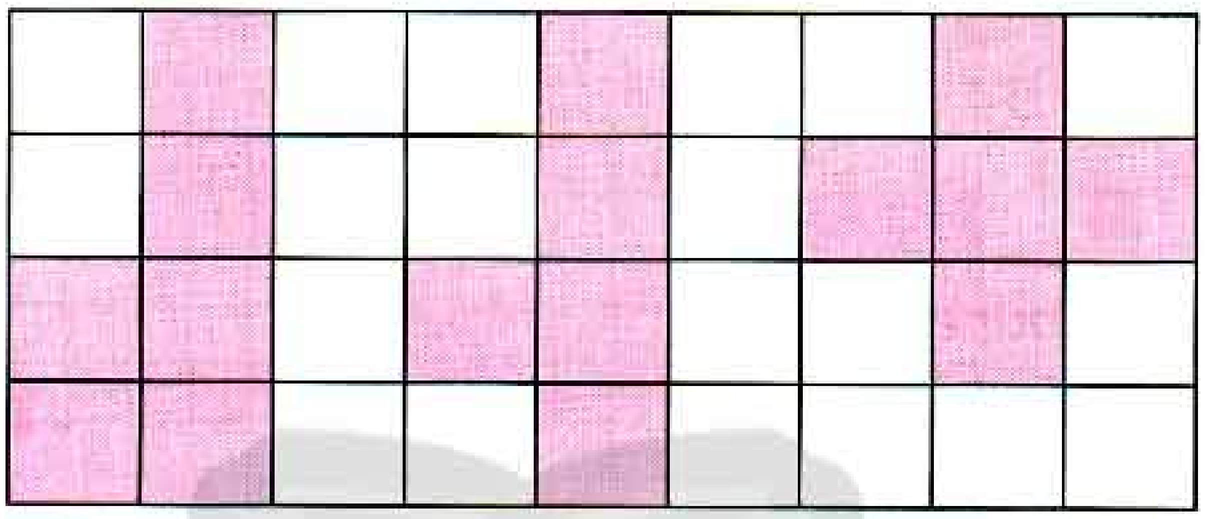
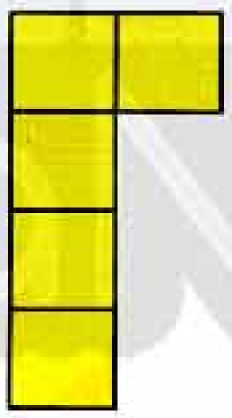


figure (1) figure (2) figure (3)

The figure	figure (1)	figure (2)	figure (3)
The perimeter			
The area			

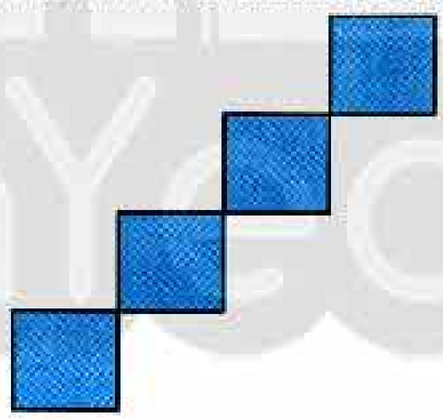
2 Find the perimeter of each of the following figures.

a



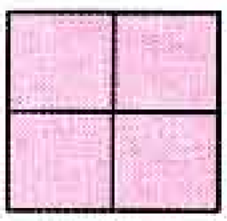
the perimeter = ... unit(s)
the area = ...

b



the perimeter = ... unit(s)
the area = ...

c



the perimeter = ... unit(s)
the area = ...

3 Complete each of the following:

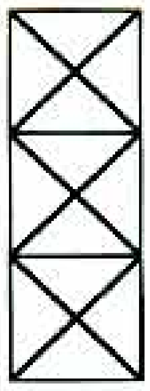
a The square of side length 7 cm.

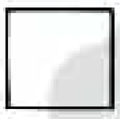
, its perimeter = ... = ... cm

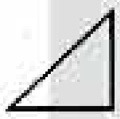
b The rectangle of two dimensions 7 and 5 cm.

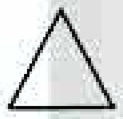
, its perimeter = ... + ... = ... cm

c The area of the figures:



= .... 

= .... 

= .... 

4

a Draw a square and rectangle that have the same perimeter.

b Draw a square and rectangle that have the same area.

Unit Three



Fractions

Lessons of the unit

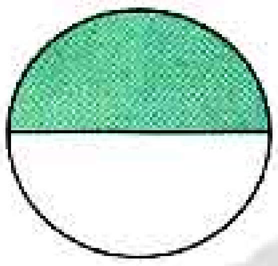
- **Lesson 1:** Meaning and reading of fractions.
- **Lesson 2:** Equal fractions.
- **Lesson 3:** Comparing two fractions and ordering fractions.
- **Lesson 4:** Adding and subtracting fractions.

Lesson 1

Meaning and reading of fractions

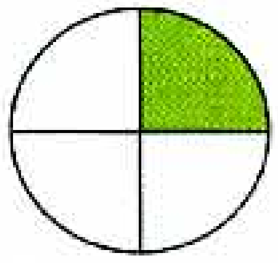
Notice: The fractions which represent the shaded part:

a



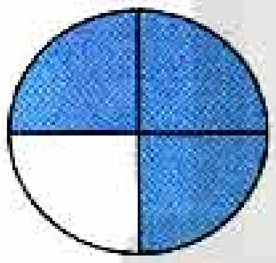
$\frac{1}{2}$ is read as (half)

b



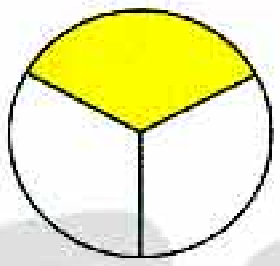
$\frac{1}{4}$ is read as (quarter)

c



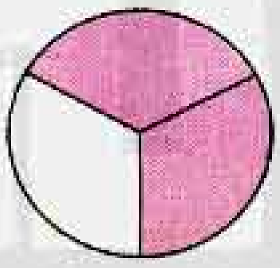
$\frac{3}{4}$ is read as (three quarters)

d



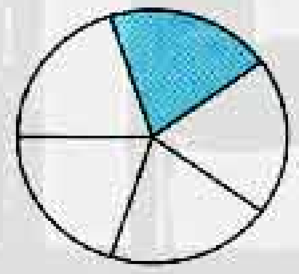
$\frac{1}{3}$ is read as (third)

e



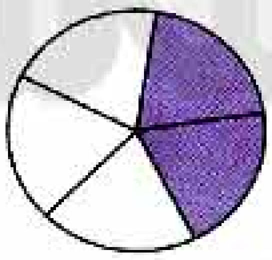
$\frac{2}{3}$ is read as (two thirds)

f



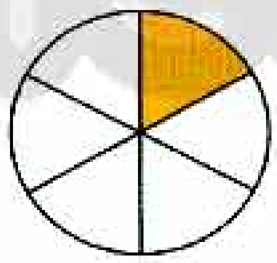
$\frac{1}{5}$ is read as (one fifth)

g



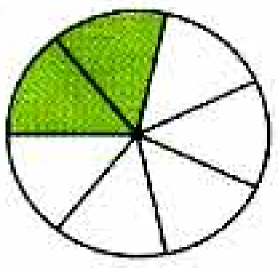
$\frac{2}{5}$ is read as (two fifths)

h



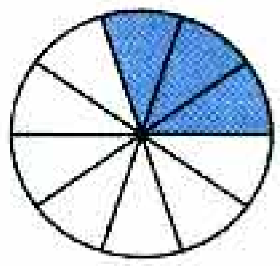
$\frac{1}{6}$ is read as (one sixth)

i



$\frac{2}{7}$ is read as (two sevenths)

j



$\frac{3}{10}$ is read as (three tenths)

Notice:

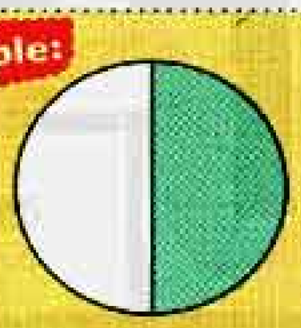
The fraction is formed from $\frac{\text{numerator}}{\text{denominator}}$

For example: $\frac{3}{8}$ → 3 is called its numerator
→ 8 is called its denominator

Examples and Exercises

1 Complete as the example:

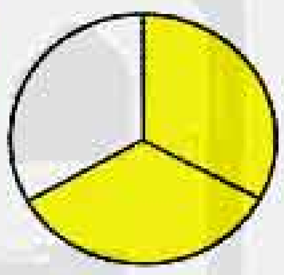
Example:



$\frac{1}{2}$

(half)

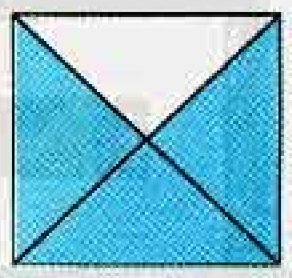
a



$\frac{\ldots\ldots}{\ldots\ldots}$

(..................)

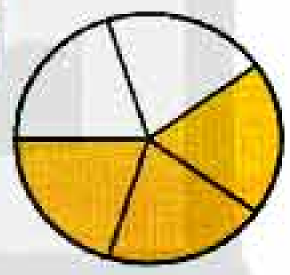
b



$\frac{\ldots\ldots}{\ldots\ldots}$

(..................)

c



$\frac{\ldots\ldots}{\ldots\ldots}$

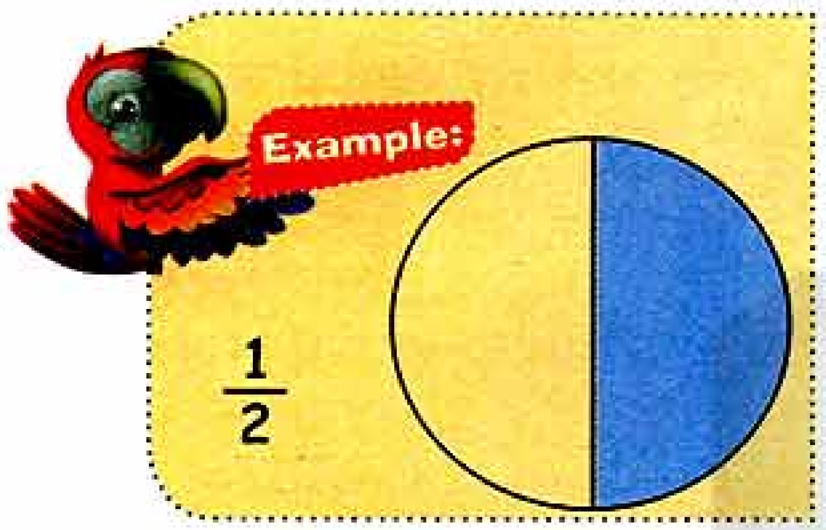
(..................)

2 Complete the Table:

fraction	its numerator	its denominator	read as
Example: $\frac{1}{2}$	1	2	half
a $\frac{2}{3}$	....	....	....
b	3	5	....
c	....	....	quarter

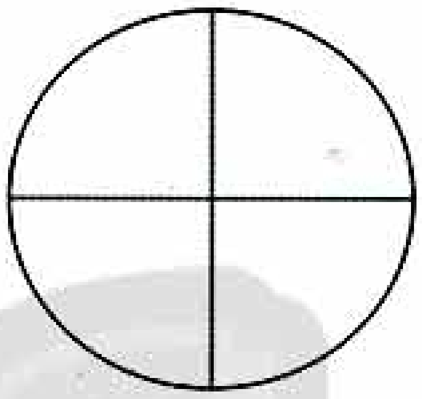
Exercise 1 Meaning and reading of fractions

1 Colour according to the fraction as the example:



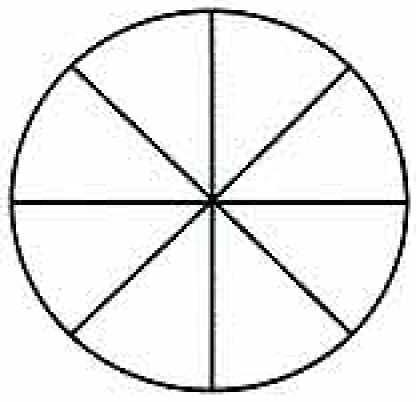
$\frac{1}{2}$

a



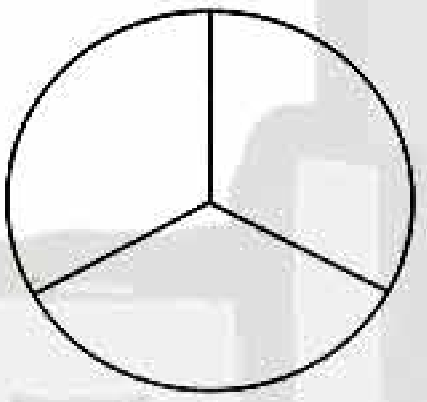
$\frac{1}{4}$

b



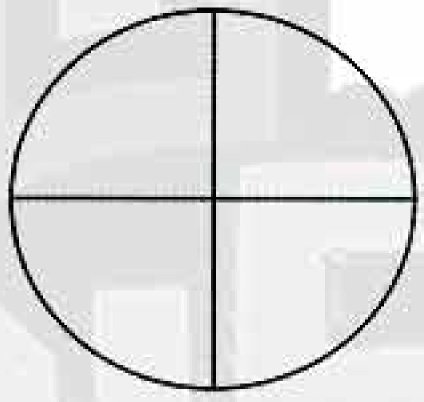
$\frac{3}{8}$

c



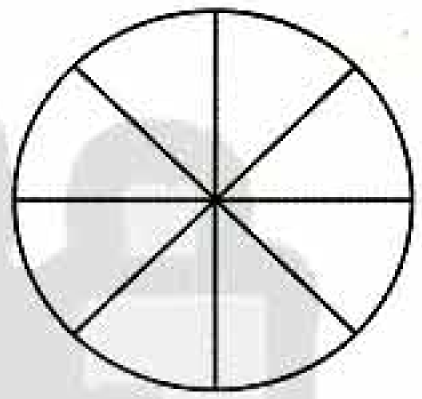
$\frac{2}{3}$

d



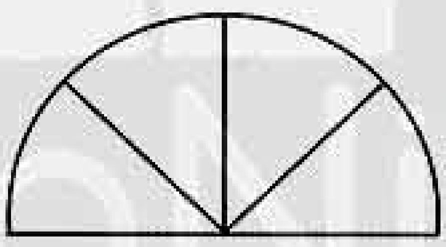
$\frac{3}{4}$

e



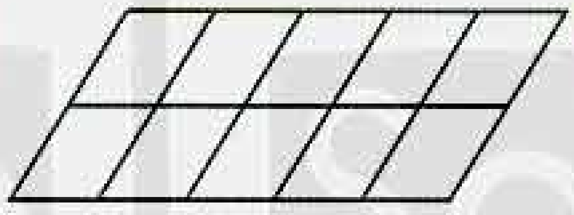
$\frac{5}{8}$

f



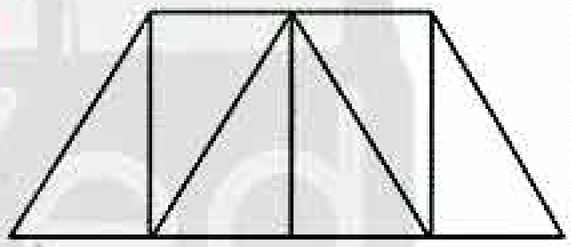
$\frac{1}{2}$

g



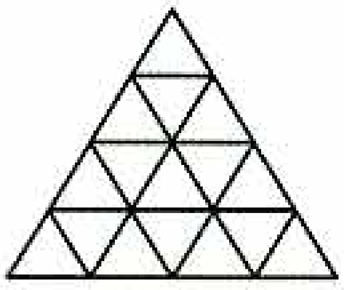
$\frac{2}{5}$

h



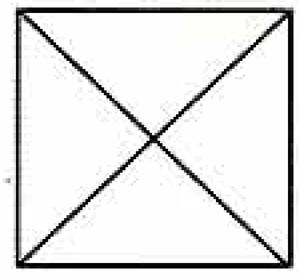
$\frac{5}{6}$

i



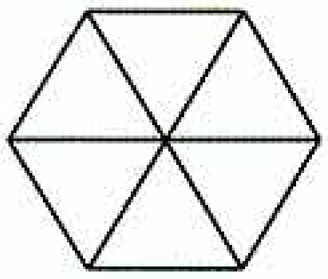
$\frac{7}{16}$

j



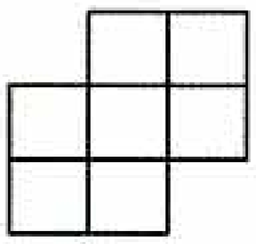
$\frac{2}{4}$

k



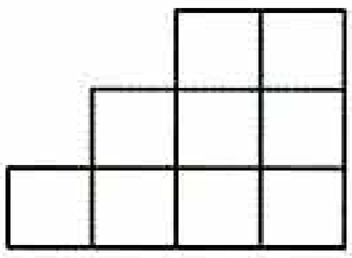
$\frac{4}{6}$

l



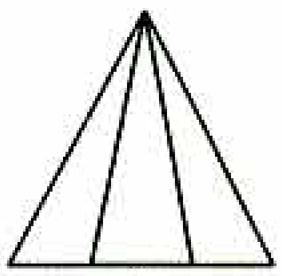
$\frac{5}{7}$

m



$\frac{4}{9}$

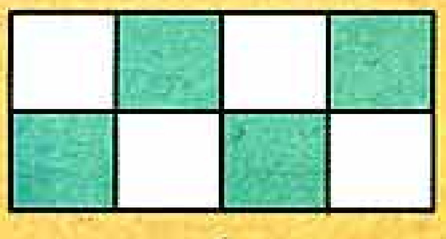
n



$\frac{1}{3}$

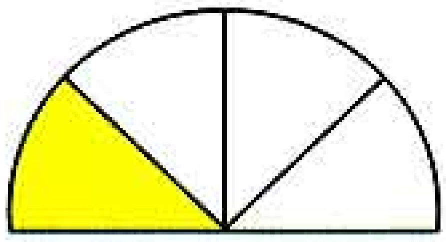
2 Write the fraction according to the shaded part as the example:

Example:



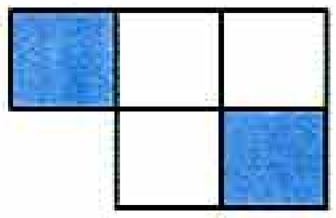
$\frac{1}{2}$

a



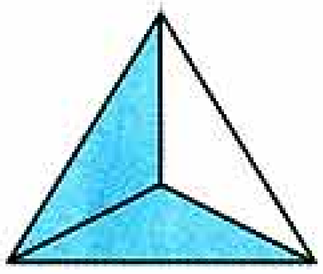
$\frac{......}{......}$

b



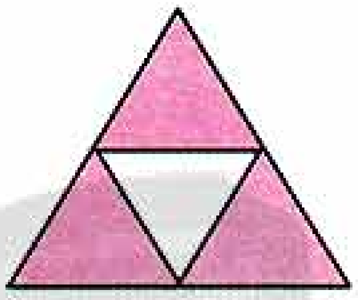
$\frac{......}{......}$

c



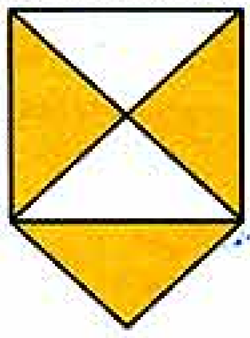
$\frac{......}{......}$

d



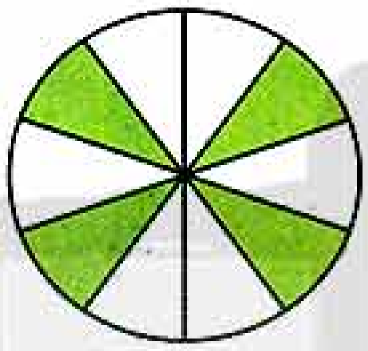
$\frac{......}{......}$

e



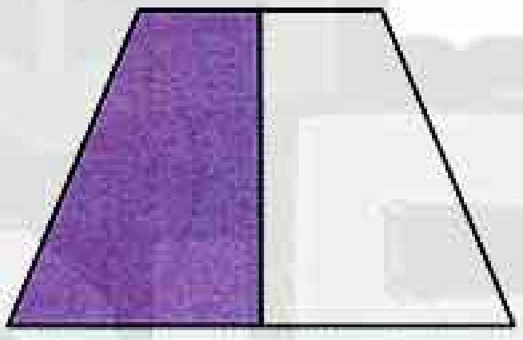
$\frac{......}{......}$

f



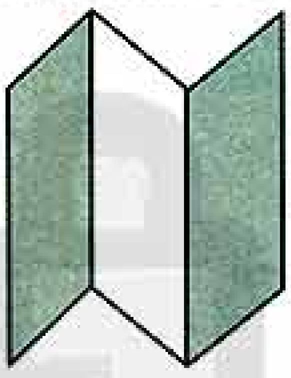
$\frac{......}{......}$

g



$\frac{......}{......}$

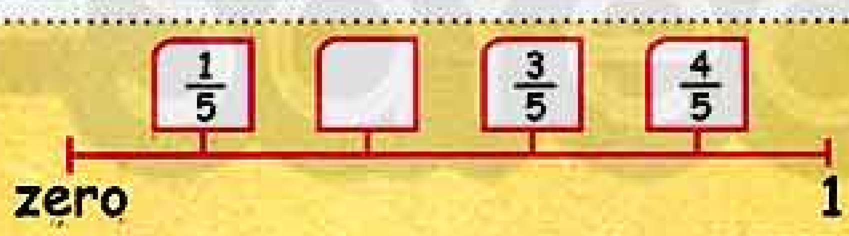
h



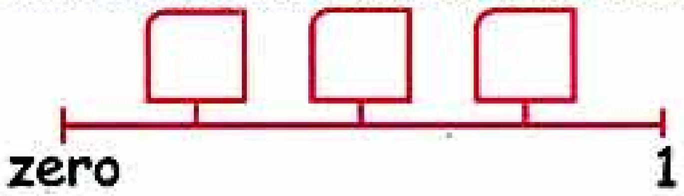
$\frac{......}{......}$

3 Write the fractions in the suitable places on the number line as the example:

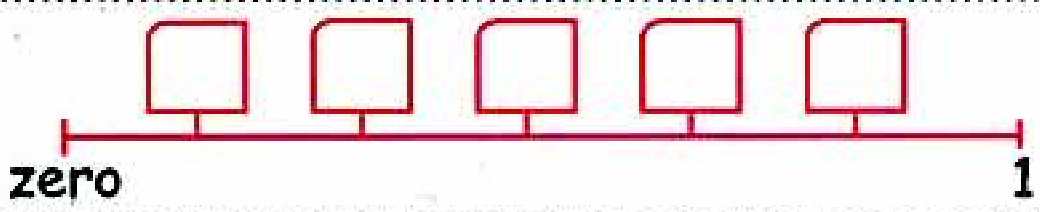
Example: $\frac{1}{5}$, $\frac{3}{5}$, $\frac{4}{5}$



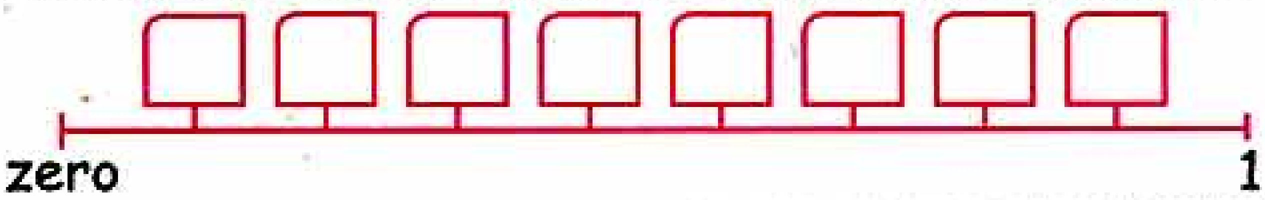
a $\frac{3}{4}$, $\frac{2}{4}$, $\frac{1}{4}$



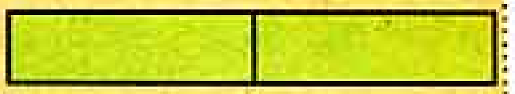
b $\frac{1}{6}$, $\frac{3}{6}$, $\frac{5}{6}$



c $\frac{2}{9}$, $\frac{4}{9}$, $\frac{5}{9}$, $\frac{7}{9}$



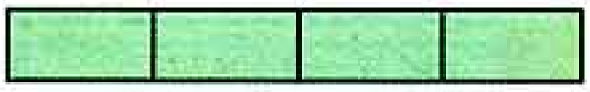
4 Answer the following as the example:

Example: How many halves are there in whole one? 

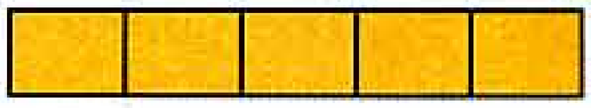
2 halves

a How many thirds are there in whole one? 

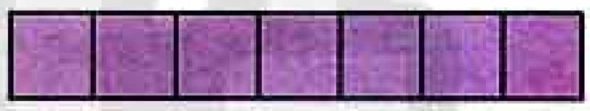
....

b How many quarters are there in whole one? 

....

c How many fifths are there in whole one? 

....

d How many sevenths are there in whole one? 

....

5 Write the fractions in digits as the example:

Example: One half = $\frac{1}{2}$

a Two thirds = $\frac{....}{....}$

b Four sevenths = $\frac{....}{....}$

c Three quarters = $\frac{....}{....}$

d Five sixths = $\frac{....}{....}$

e Seven eighths = $\frac{....}{....}$

f Three tenths = $\frac{....}{....}$

g One fifth = $\frac{....}{....}$

h Five ninths = $\frac{....}{....}$

i Nine elevenths = $\frac{....}{....}$

j One eighth = $\frac{....}{....}$

k Two sevenths = $\frac{....}{....}$

6 Write the following fractions in words as the example:

Example: $\frac{1}{4}$ = A quarter

a $\frac{1}{5}$ = ...
b $\frac{3}{5}$ = ...
c $\frac{2}{7}$ = ...
d $\frac{1}{2}$ = ...
e $\frac{7}{10}$ = ...
f $\frac{5}{8}$ = ...
g $\frac{4}{9}$ = ...
h $\frac{2}{3}$ = ...
i $\frac{1}{6}$ = ...
j $\frac{2}{12}$ = ...
k $\frac{15}{3}$ = ...

7 Complete each of the following:

a $\frac{2}{5}$, the numerator is .... and the denominator is ....
b $\frac{3}{7}$, the numerator is .... and the denominator is ....
c $\frac{\cdots}{\cdots}$, the numerator is 5 and the denominator is 8.
d $\frac{\cdots}{9}$ the numerator is 4 and the denominator is ....

8 Match the suitable fraction as the example:

Example: Numerator is 5 and denominator is 7 = → $\frac{5}{7}$

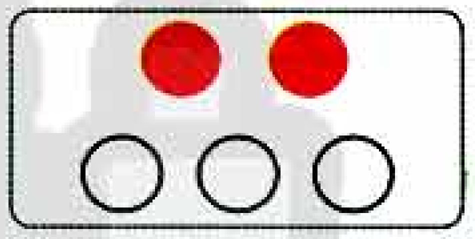
a Numerator is 3 and denominator is 8 = ...
b Denominator is 5 and numerator is 2 = ...
c Denominator is 9 and numerator is 5 = ...
d Denominator is 6 and numerator is 5 = ...
e Numerator is 7 and denominator is 9 = ...

1 $\frac{5}{9}$
2 $\frac{2}{5}$
3 $\frac{7}{9}$
4 $\frac{5}{6}$
$\frac{5}{7}$
5 $\frac{3}{8}$

9 Complete the following table:

Numerator	Denominator	The fraction	Is read as
Example: 3	5	$\frac{3}{5}$	three fifths
2	3	....	....
....	....	$\frac{5}{6}$	....
....	....	....	three eighths
....	....	....	two sevenths

10 Look at the following drawing, then express in fraction the number of:



a coloured circles to the number of all circles $= \frac{\dots}{\dots}$

b uncoloured circles to the number of all circles $= \frac{\dots}{\dots}$

11 Draw a shape that represents each of the following fractions.

a $\frac{2}{3}$

b $\frac{3}{5}$

c $\frac{3}{7}$

d $\frac{3}{4}$

12 Who am I?

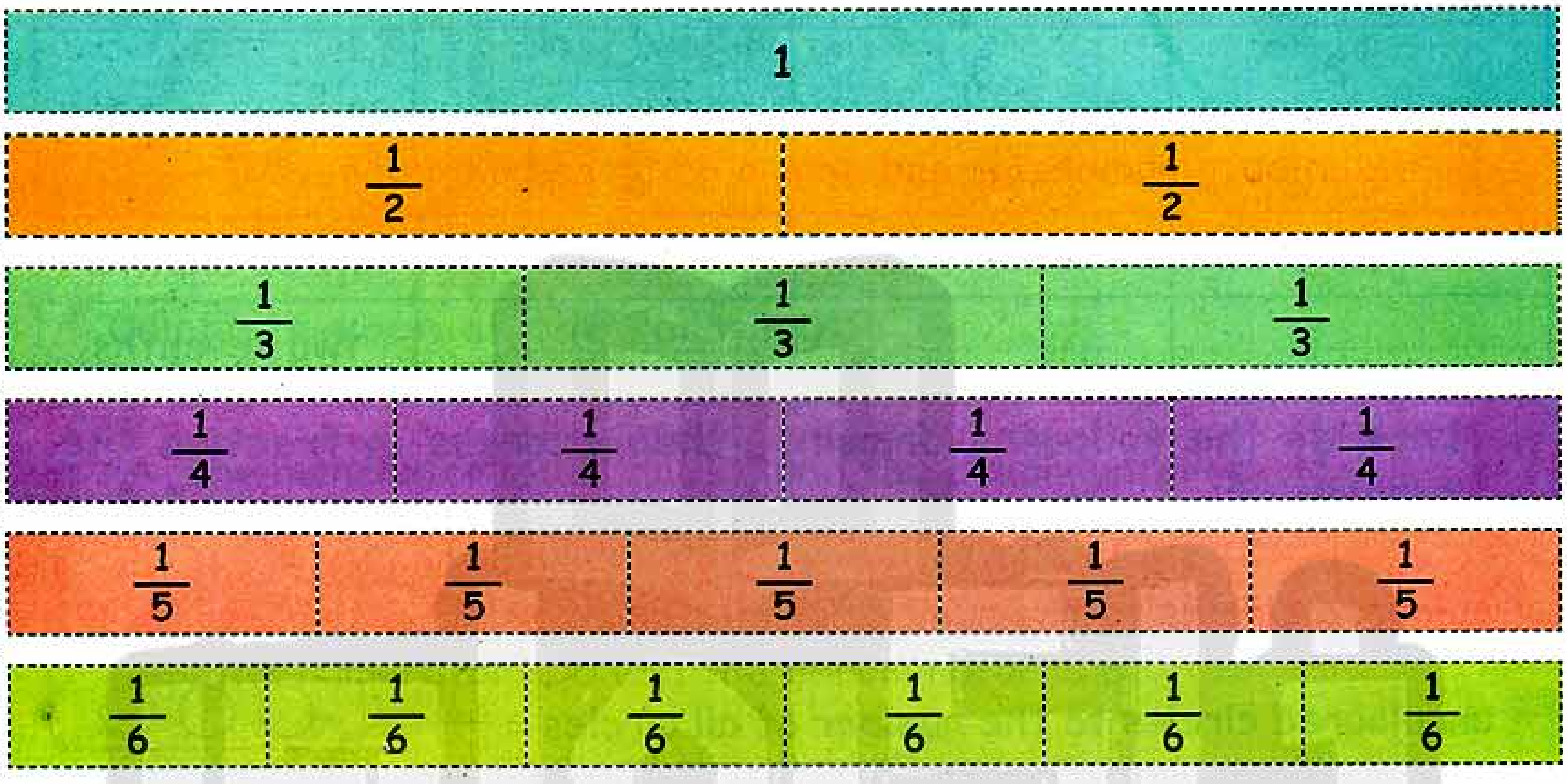
a I am a fraction, my denominator is 7 and my numerator is less than my denominator by 2, then I am $\frac{\dots}{\dots}$

b I am a fraction, my denominator is 6 and my numerator is half my denominator, then I am $\frac{\dots}{\dots}$

Lesson 2

Equal fractions

First **Observe the following:**



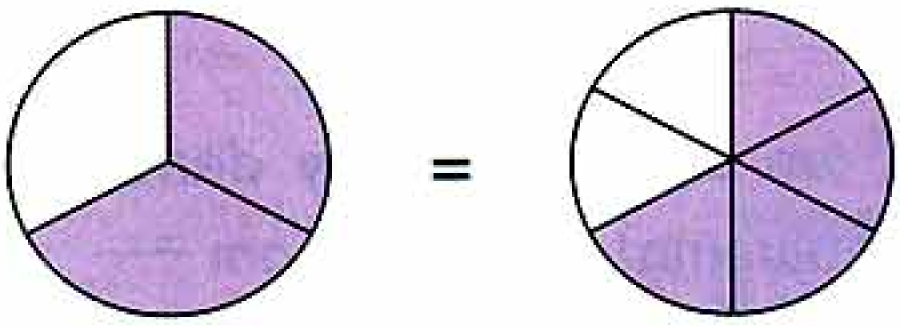
So: $1 = \frac{2}{2} = \frac{3}{3} = \frac{4}{4} = \frac{5}{5} = \frac{10}{10}$

Remark

To get a fraction equal to a given fraction, we multiply both the numerator and the denominator of the given fraction by the same number.

For example:

$$\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$$



Second — Simplifying the fractions

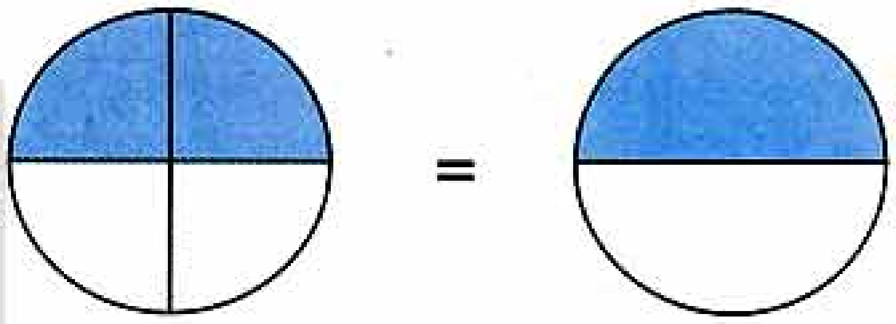
Remark

To simplify or (reduce) the fraction divide each of its numerator and its denominator by the same number (the greatest common number by which both numerator and denominator could be divided).

For example:

$$\frac{2}{4} \xrightarrow{\div 2} = \frac{1}{2}$$

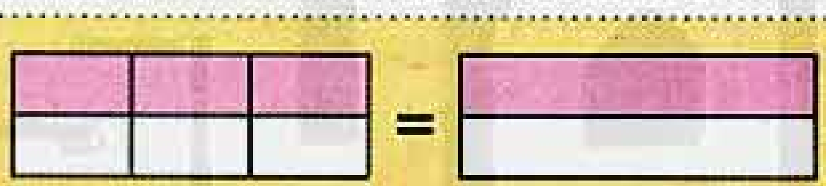
(÷ 2 above, ÷ 2 below)



Examples and Exercises

1 Complete as the example:

Example:



$$\frac{3}{6} = \frac{1}{2}$$

(÷ 3 above, ÷ 3 below)

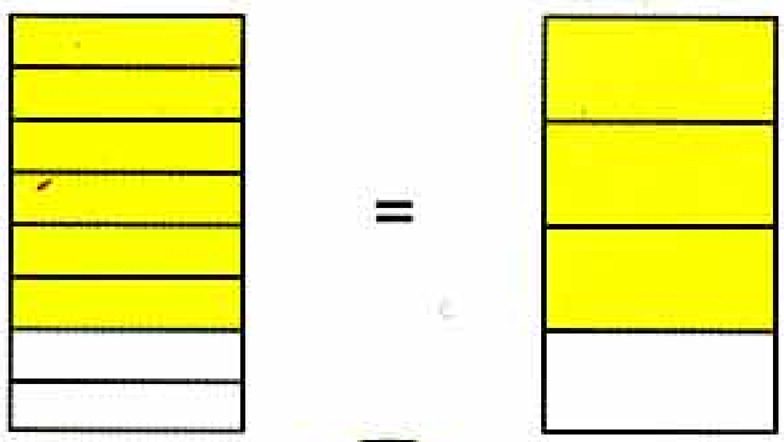
a



$$\frac{2}{8} = \frac{1}{4}$$

(÷ ..... above, ÷ ..... below)

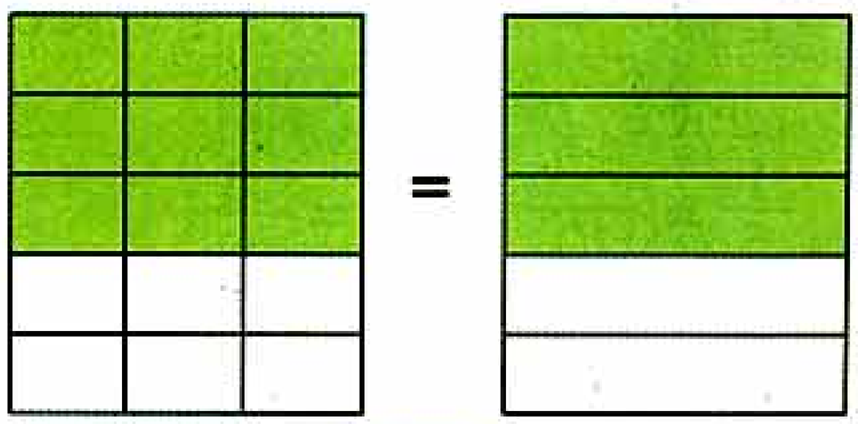
b



$$\frac{6}{8} = \frac{.....}{4}$$

(÷ ..... above, ÷ ..... below)

c

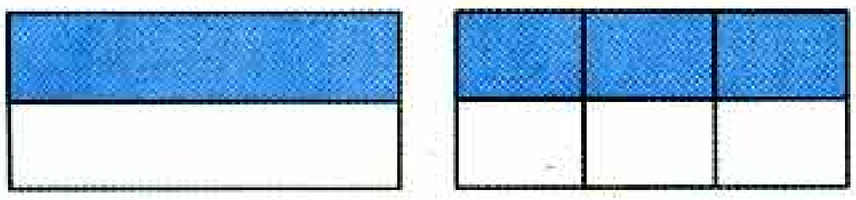


$$\frac{9}{15} = \frac{3}{.....}$$

(÷ ..... above, ÷ ..... below)

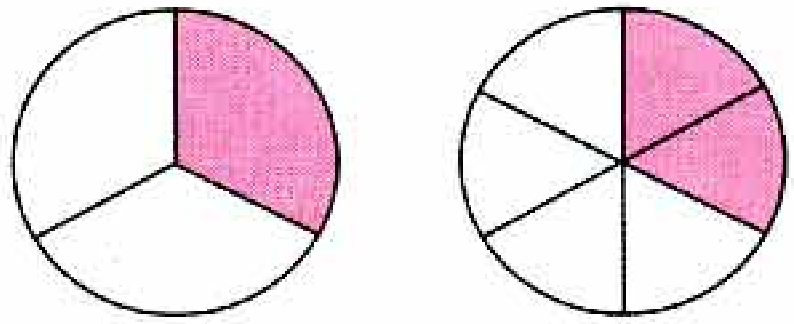
2 Complete using the figures:

a How many sixths are there in a half? ....



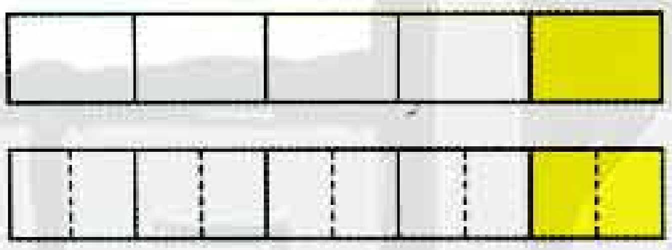
$\frac{1}{2} = \frac{\cdots}{6}$

b How many sixths are there in a third? ....



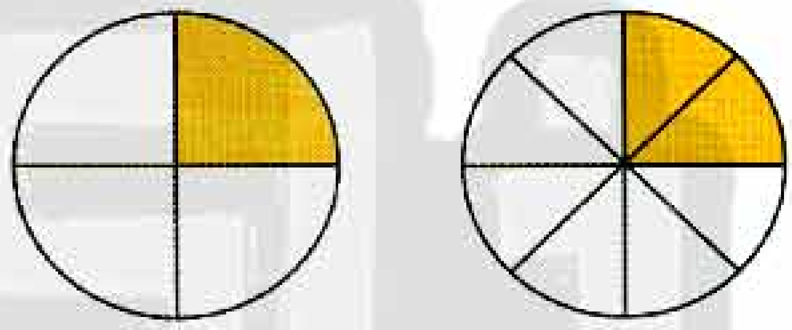
$\frac{1}{3} = \frac{\cdots}{6}$

c How many tenths are there in a fifth? ....



$\frac{1}{5} = \frac{\cdots}{10}$

d How many eighths are there in a quarter? ....



$\frac{1}{4} = \frac{\cdots}{8}$

3 Complete each of the following to get equal fractions:

a $\frac{1}{2} = \frac{\cdots}{4} = \frac{6}{\cdots} = \frac{5}{\cdots} = \frac{\cdots}{20}$

b $\frac{2}{3} = \frac{\cdots}{6} = \frac{10}{\cdots} = \frac{14}{\cdots} = \frac{20}{\cdots}$

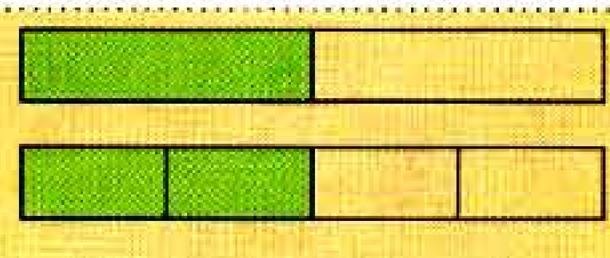
c $\frac{1}{5} = \frac{\cdots}{10} = \frac{4}{\cdots} = \frac{3}{\cdots}$

d $\frac{3}{4} = \frac{6}{\cdots} = \frac{\cdots}{12} = \frac{12}{\cdots}$

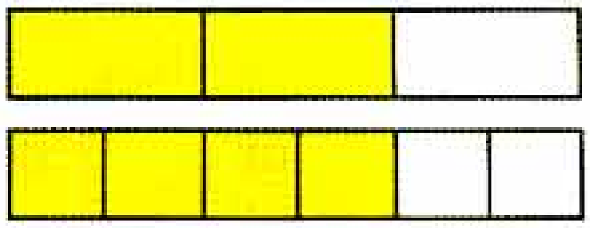
Exercise 2 Equal fractions

1 Complete with the help of the figure as the example:

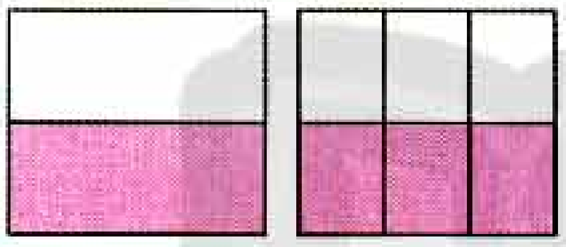
Example: $\frac{1}{2} = \frac{2}{4}$



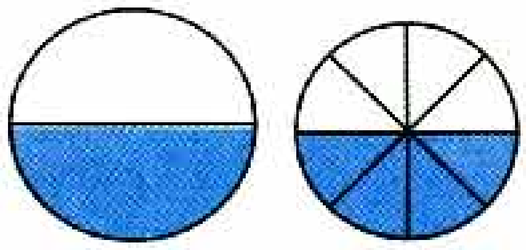
a $\frac{2}{3} = \frac{......}{6}$



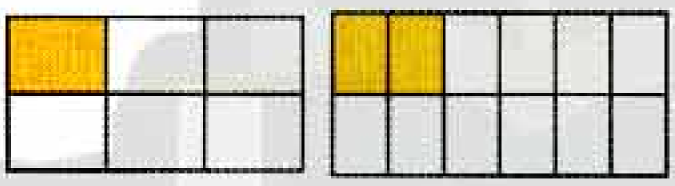
b $\frac{......}{......} = \frac{3}{......}$



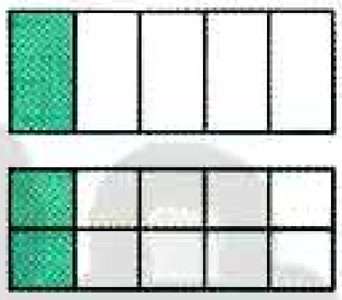
c $\frac{1}{2} = \frac{......}{8}$



d $\frac{1}{......} = \frac{......}{......}$

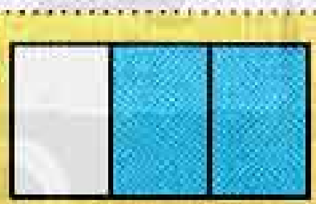


e $\frac{1}{5} = \frac{......}{......}$



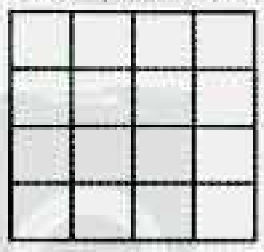
2 Colour according to the fraction as the example:

Example:



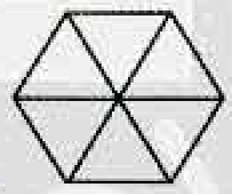
$\frac{2}{3}$

a



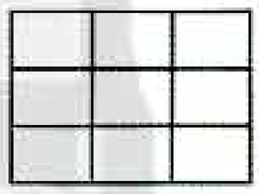
$\frac{3}{4}$

b



$\frac{1}{2}$

c



$\frac{4}{9}$

3 Complete each of the following:

a $\frac{3}{4} = \frac{......}{8}$

b $\frac{3}{5} = \frac{......}{15}$

c $\frac{5}{8} = \frac{20}{.....}$

d $\frac{5}{6} = \frac{......}{30}$

e $\frac{2}{3} = \frac{......}{9}$

f $\frac{3}{7} = \frac{12}{.....}$

g $\frac{3}{8} = \frac{21}{.....}$

h $\frac{6}{11} = \frac{......}{66}$

i $\frac{1}{2} = \frac{7}{.....}$

j $\frac{2}{5} = \frac{......}{10}$

k $\frac{7}{9} = \frac{21}{.....}$

l $\frac{5}{5} = \frac{1}{.....}$

4 Choose the correct answer as the example:

Example: $\frac{5}{6} = \frac{30}{36}$ $\left(\frac{20}{30} \text{ or } \frac{15}{24} \text{ or } \frac{15}{30} \text{ or } \frac{30}{36} \right)$

a) $\frac{2}{3} =$ .... $\left(\frac{6}{12} \text{ or } \frac{10}{15} \text{ or } \frac{8}{18} \text{ or } \frac{4}{9} \right)$

b) $\frac{3}{5} =$ .... $\left(\frac{12}{20} \text{ or } \frac{6}{8} \text{ or } \frac{15}{24} \text{ or } \frac{3}{15} \right)$

c) $\frac{1}{3} =$ .... $\left(\frac{2}{9} \text{ or } \frac{6}{18} \text{ or } \frac{3}{6} \text{ or } \frac{2}{3} \right)$

d) $\frac{4}{7} =$ .... $\left(\frac{16}{21} \text{ or } \frac{28}{49} \text{ or } \frac{24}{56} \text{ or } \frac{12}{20} \right)$

e) $\frac{1}{5} =$ .... $\left(\frac{4}{10} \text{ or } \frac{4}{15} \text{ or } \frac{4}{20} \text{ or } \frac{4}{25} \right)$

f) $\frac{3}{4} =$ .... $\left(\frac{9}{21} \text{ or } \frac{3}{8} \text{ or } \frac{27}{36} \text{ or } \frac{6}{12} \right)$

g) $\frac{2}{7} = \frac{18}{\dots\dots}$ (9 or 63 or 14 or 56)

h) $\frac{3}{5} = \frac{\dots\dots}{10}$ (2 or 5 or 6 or 9)

i) $\frac{1}{2} =$ .... $\left(\frac{3}{6} \text{ or } \frac{3}{9} \text{ or } \frac{3}{4} \text{ or } \frac{3}{12} \right)$

5 Match the equal fractions as the example:

Example: $\frac{2}{3}$	a) $\frac{3}{5}$	b) $\frac{9}{10}$	c) $\frac{3}{7}$
1) $\frac{18}{20}$	2) $\frac{15}{35}$	$\frac{4}{6}$	3) $\frac{9}{15}$

6 Complete each of the following as the example:

Example: $\frac{2}{5} = \frac{4}{10} = \frac{12}{30}$

a) $\frac{5}{6} = \frac{\dots}{30} = \frac{50}{\dots}$

b) $\frac{2}{7} = \frac{\dots}{21} = \frac{18}{\dots} = \frac{\dots}{35}$

c) $\frac{3}{8} = \frac{6}{\dots} = \frac{\dots}{40} = \frac{9}{\dots}$

d) $\frac{1}{4} = \frac{3}{\dots} = \frac{\dots}{20}$

e) $\frac{3}{10} = \frac{\dots}{30} = \frac{12}{\dots} = \frac{\dots}{60}$

f) $\frac{1}{3} = \frac{\dots}{6} = \frac{5}{\dots}$

g) $\frac{3}{7} = \frac{9}{\dots} = \frac{\dots}{35}$

h) $\frac{4}{9} = \frac{\dots}{36} = \frac{24}{\dots}$

i) $\frac{4}{4} = \frac{8}{\dots} = \frac{\dots}{20}$

j) $1 = \frac{5}{\dots} = \frac{\dots}{7}$

k) $\frac{3}{\dots} = \frac{9}{15} = \frac{27}{\dots}$

7 Complete each of the following as the example:

Example: $\frac{5}{10} = \frac{1}{2}$ (÷ 5 for numerator, ÷ 5 for denominator)

a) $\frac{6}{8} = \frac{3}{\dots}$ (÷ ...., ÷ ....)

b) $\frac{7}{21} = \frac{1}{\dots}$ (÷ ...., ÷ ....)

c) $\frac{4}{12} = \frac{\dots}{3}$ (÷ ...., ÷ ....)

d) $\frac{4}{8} = \frac{\dots}{\dots}$ (÷ 4, ÷ 4)

e) $\frac{15}{18} = \frac{5}{\dots}$ (÷ ...., ÷ ....)

f) $\frac{2}{8} = \frac{\dots}{\dots}$ (÷ 2, ÷ 2)

g) $\frac{40}{45} = \frac{\dots}{9}$ (÷ ...., ÷ ....)

h) $\frac{5}{20} = \frac{1}{\dots}$ (÷ ...., ÷ ....)

8 Write one fraction with a .... :

a) numerator 6, and is equal to $\frac{18}{24} = \frac{\dots}{\dots}$

b) denominator 12, and is equal to $\frac{2}{3} = \frac{\dots}{\dots}$

c) numerator more than 20, and is equal to $\frac{5}{7} = \frac{\dots}{\dots}$

d) denominator less than 16, and is equal to $\frac{3}{5} = \frac{\dots}{\dots}$

e) numerator between 5 and 9, and is equal to $\frac{12}{16} = \frac{\dots}{\dots}$

9 Complete each of the following:

Example: $\frac{9}{27} = \frac{1}{3}$

a) $\frac{6}{8} = \frac{\dots\dots}{4}$

b) $\frac{15}{25} = \frac{\dots\dots}{5}$

c) $\frac{12}{15} = \frac{\dots\dots}{5}$

d) $\frac{9}{27} = \frac{1}{\dots\dots}$

e) $\frac{12}{18} = \frac{2}{\dots\dots}$

f) $\frac{7}{70} = \frac{1}{\dots\dots}$

g) $\frac{9}{12} = \frac{\dots\dots}{4}$

h) $\frac{8}{14} = \frac{4}{\dots\dots}$

i) $\frac{27}{30} = \frac{\dots\dots}{10}$

j) $\frac{4}{10} = \frac{\dots\dots}{5}$

k) $\frac{16}{20} = \frac{4}{\dots\dots}$

10 Choose the correct answer:

a) $\frac{4}{6}$ = ………………… ($\frac{3}{2}$ or $\frac{2}{3}$ or $\frac{4}{3}$)

b) $\frac{12}{30}$ = ………………… ($\frac{1}{2}$ or $\frac{3}{4}$ or $\frac{2}{5}$)

c) $\frac{3}{12}$ = ………………… ($\frac{1}{5}$ or $\frac{1}{4}$ or $\frac{1}{3}$)

d) $\frac{6}{10} = \frac{\dots\dots}{5}$ (2 or 3 or 4)

e) $\frac{21}{56}$ = ………………… ($\frac{3}{8}$ or $\frac{2}{8}$ or $\frac{3}{7}$)

f) $\frac{14}{21} = \frac{2}{\dots\dots}$ (2 or 3 or 7)

g) $\frac{4}{36}$ = ………………… ($\frac{1}{18}$ or $\frac{1}{9}$ or $\frac{4}{12}$)

h) $\frac{15}{20}$ = ………………… ($\frac{3}{4}$ or $\frac{1}{2}$ or $\frac{3}{5}$)

i) $\frac{12}{48}$ = ………………… ($\frac{2}{6}$ or $\frac{2}{3}$ or $\frac{1}{4}$)

j) $\frac{18}{30}$ = ………………… ($\frac{9}{15}$ or $\frac{6}{10}$ or $\frac{3}{5}$)

k) $\frac{16}{24}$ = ………………… ($\frac{2}{3}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

l) $\frac{60}{75}$ = ………………… ($\frac{3}{5}$ or $\frac{2}{5}$ or $\frac{4}{5}$)

m) $\frac{30}{42}$ = ………………… ($\frac{6}{8}$ or $\frac{5}{7}$ or $\frac{5}{6}$)

11 Put the suitable mark (✓) or (✗) as the example:

Example: $\frac{6}{9}$ in the simplest form = $\frac{2}{3}$ (✓)

a. $\frac{6}{8}$ in the simplest form = $\frac{3}{4}$ ( )

b. $\frac{3}{12}$ in the simplest form = $\frac{1}{3}$ ( )

c. $\frac{16}{32}$ and $\frac{5}{10}$ have the same simplest form. ( )

d. $\frac{8}{12} = \frac{4}{10}$ because they have the same simplest form. ( )

e. $\frac{5}{15} = \frac{7}{21}$ because they have the same simplest form. ( )

f. $\frac{6}{12}$ in the simplest form is $\frac{1}{2}$ ( )

g. $\frac{20}{30} = \frac{2}{3}$ in the simplest form. ( )

12 Match the equal fractions:

a. $\frac{8}{12}$ b. $\frac{20}{24}$ c. $\frac{6}{12}$ d. $\frac{16}{20}$ e. $\frac{10}{16}$

1. $\frac{1}{2}$ 2. $\frac{2}{3}$ 3. $\frac{5}{8}$ 4. $\frac{5}{6}$ 5. $\frac{4}{5}$

13 Simplify each of the following fractions:

Example: $\frac{3}{15} = \frac{1}{5}$

a. $\frac{5}{10} = \frac{......}{......}$

b. $\frac{10}{100} = \frac{......}{......}$

c. $\frac{3}{30} = \frac{......}{......}$

d. $\frac{28}{49} = \frac{......}{......}$

e. $\frac{150}{180} = \frac{......}{......}$

f $\frac{6}{21} = \frac{......}{......}$ g $\frac{36}{66} = \frac{......}{......}$ h $\frac{35}{45} = \frac{......}{......}$

i $\frac{18}{30} = \frac{......}{......}$ j $\frac{120}{140} = \frac{......}{......}$ k $\frac{8}{40} = \frac{......}{......}$

l $\frac{4}{12} = \frac{......}{......}$ m $\frac{21}{27} = \frac{......}{......}$ n $\frac{6}{18} = \frac{......}{......}$

14 Complete each of the following as the example:



Example: $\frac{3}{6} = \frac{1}{2}$ and $\frac{7}{14} = \frac{1}{2}$ So $\frac{3}{6} = \frac{7}{14}$

a $\frac{35}{40} = \frac{......}{......}$ and $\frac{21}{24} = \frac{......}{......}$ So $\frac{35}{40} = \frac{......}{24}$

b $\frac{12}{16} = \frac{......}{......}$ and $\frac{15}{20} = \frac{......}{......}$ So $\frac{......}{16} = \frac{15}{20}$

c $\frac{25}{35} = \frac{......}{......}$ and $\frac{45}{63} = \frac{......}{......}$ So $\frac{......}{35} = \frac{45}{......}$

d $\frac{20}{30} = \frac{......}{......}$ and $\frac{12}{18} = \frac{......}{......}$ So $\frac{20}{......} = \frac{......}{18}$

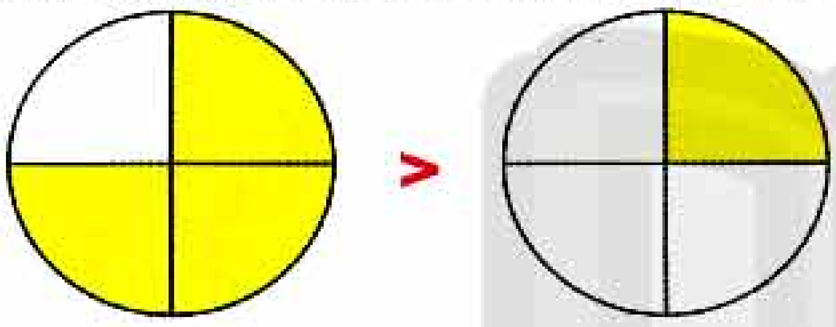
Lesson 3

Comparing two fractions and ordering fractions

Think:

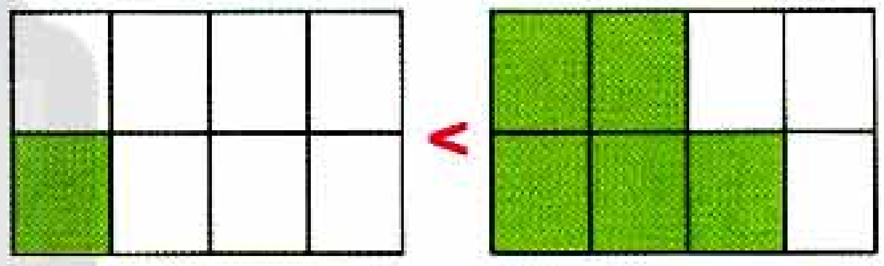
First **The fractions with the same denominators**

a



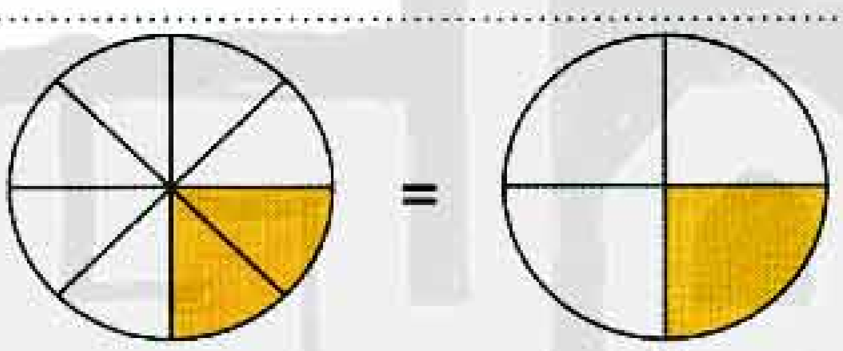
$\frac{3}{4} > \frac{1}{4}$

b



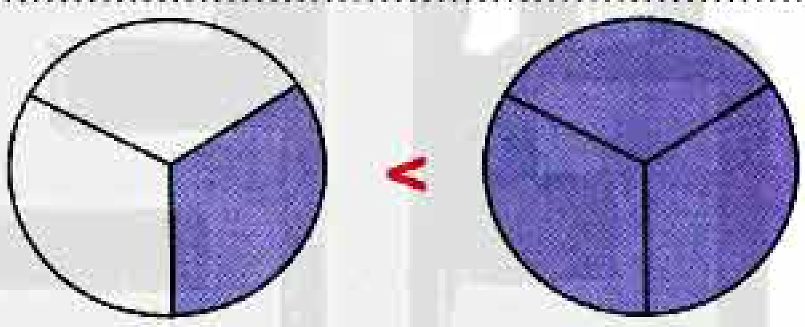
$\frac{1}{8} < \frac{5}{8}$

c



$\frac{2}{8} = \frac{1}{4}$

d



$\frac{1}{3} < 1$

because $1 = \frac{3}{3}$

From the previous figures deduce that:

to compare between the fractions **with the same denominators**, compare between their numerators.

(the fraction with greater numerator is the greater).

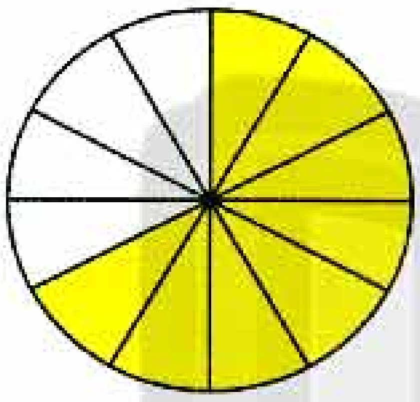
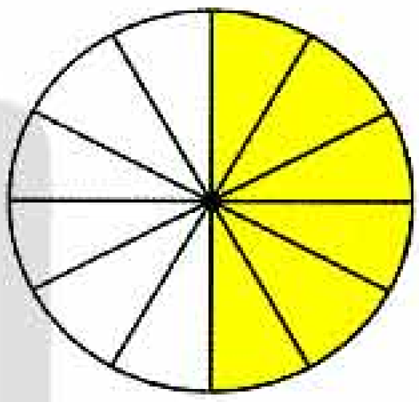
$\frac{6}{7}$ > $\frac{5}{7}$ and so on

Second The fractions with the same numerators

To compare between the fractions with the same numerators, compare between their denominators.

(the fraction with greater denominator is the smaller)

From the opposite figures:

 > 

$$\frac{2}{3} > \frac{2}{4}$$

Third Arrangement of fractions

Notice:

The ascending order: **Small** → **Big**

The descending order: **Big** → **Small**

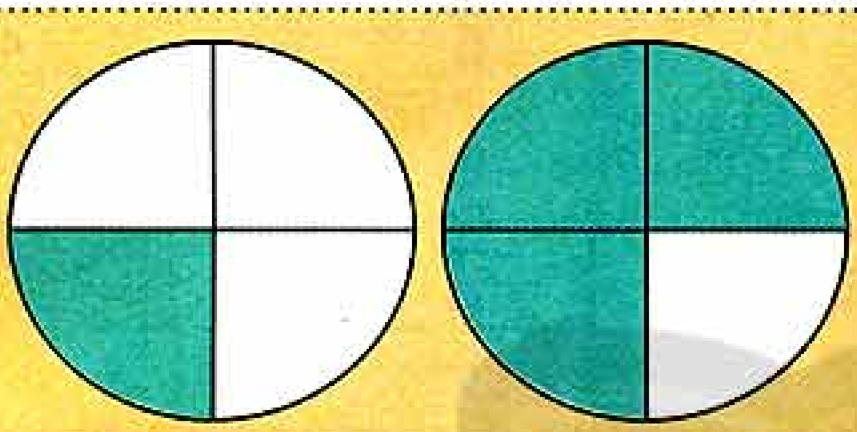
a $\frac{1}{8} < \frac{5}{8} < \frac{7}{8} < 1$ (ascendingly)

b $\frac{5}{6} > \frac{4}{6} > \frac{3}{6} > \frac{2}{6}$ (descendingly)

Exercise 3 — Ordering fractions and comparing two fractions

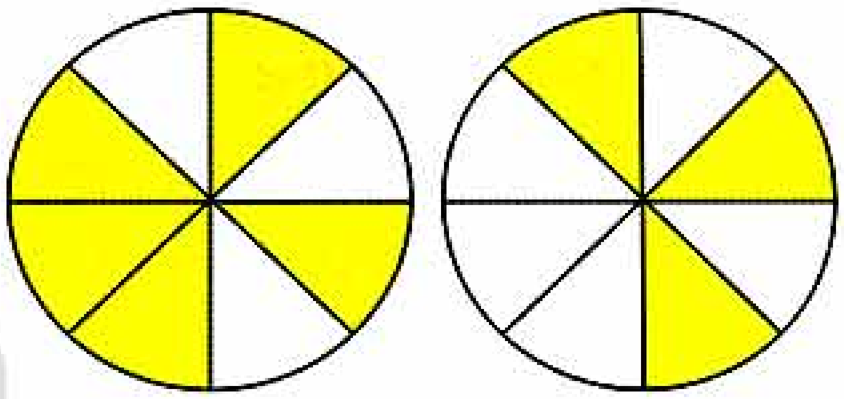
1 Notice the figures and complete using (< , = or >) as the example:

Example:



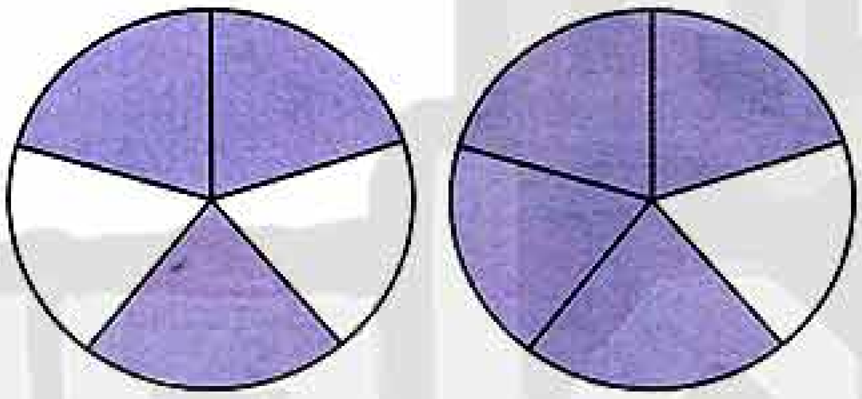
$\frac{1}{4}$ < $\frac{3}{4}$

a



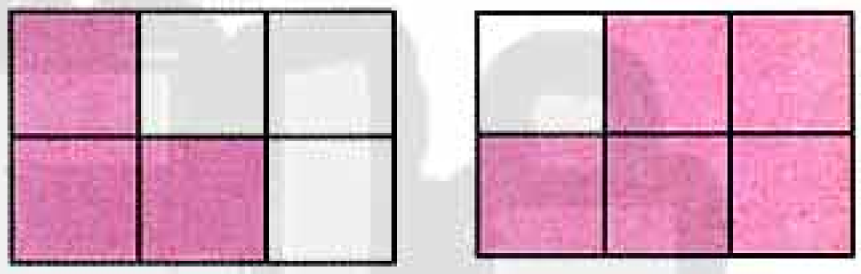
$\frac{5}{8}$ .... $\frac{3}{8}$

b



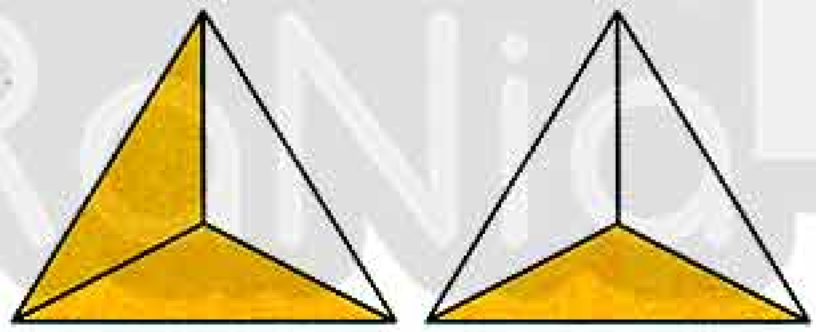
$\frac{3}{5}$ .... $\frac{4}{5}$

c



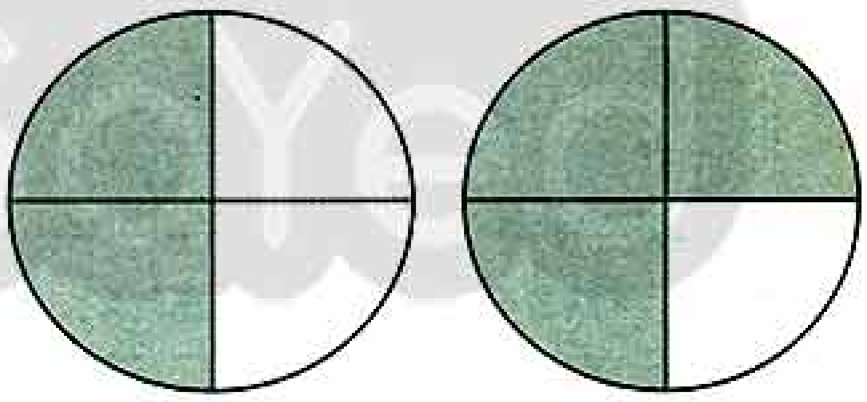
$\frac{3}{6}$ .... $\frac{5}{6}$

d



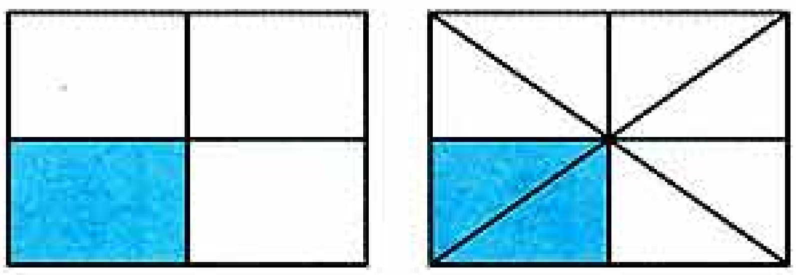
$\frac{2}{3}$ .... $\frac{1}{3}$

e



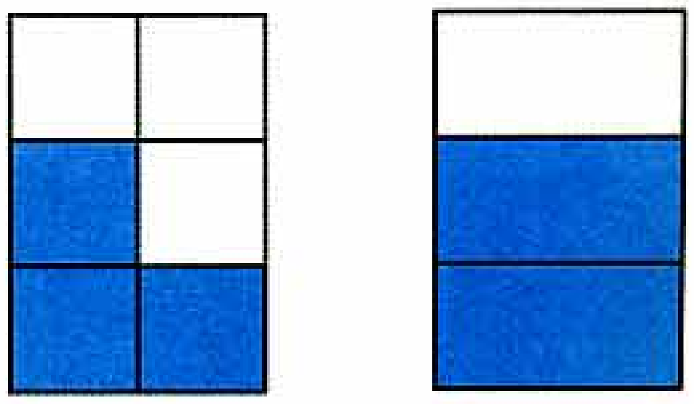
$\frac{1}{2}$ .... $\frac{3}{4}$

f



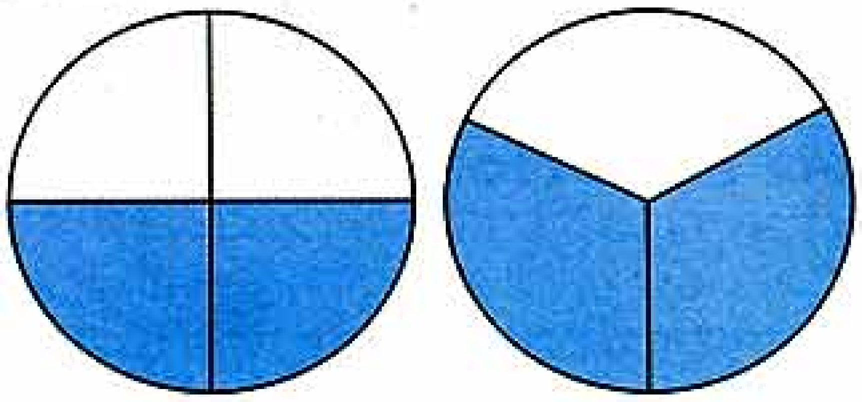
$\frac{1}{4}$ .... $\frac{2}{8}$

g



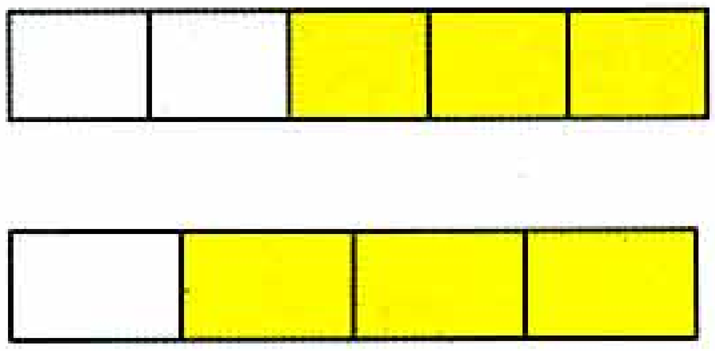
$\frac{3}{6}$ .... $\frac{2}{3}$

h



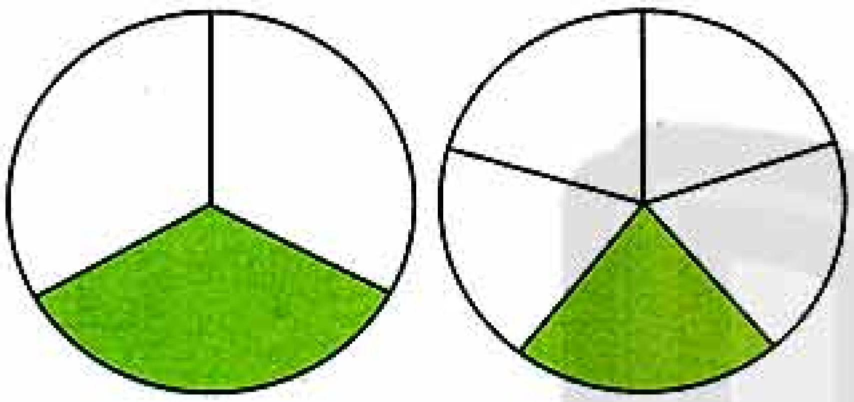
$\frac{2}{4}$ .... $\frac{2}{3}$

i



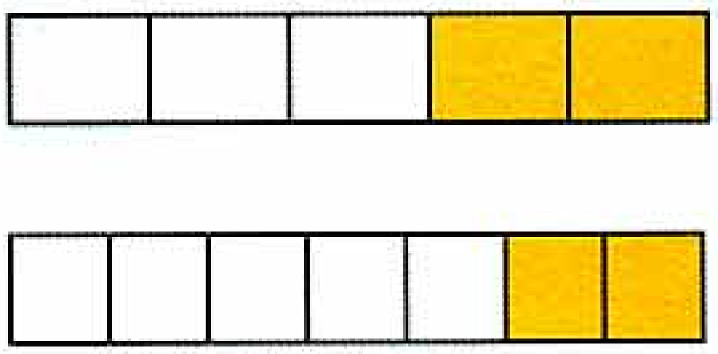
$\frac{3}{5}$ .... $\frac{3}{4}$

j



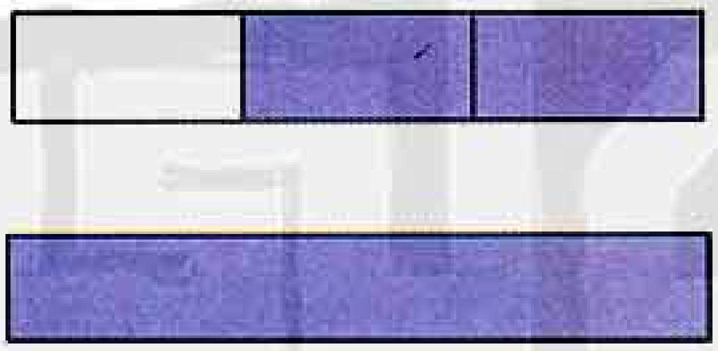
$\frac{1}{3}$ .... $\frac{1}{5}$

k



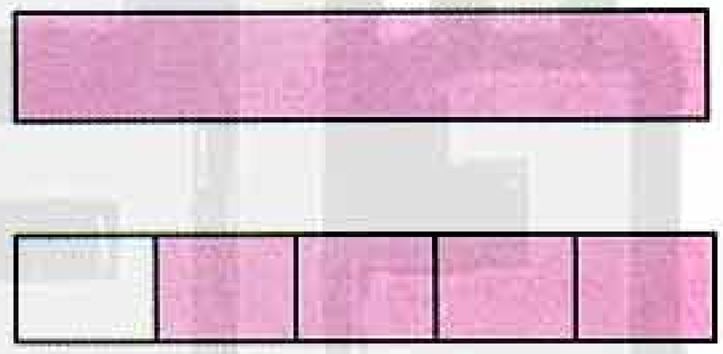
$\frac{2}{5}$ .... $\frac{2}{7}$

l



$\frac{2}{3}$ 1

m



1 .... $\frac{4}{5}$

2 Put the suitable sign (> , = or <):

a $\frac{1}{5}$ .... $\frac{2}{5}$

b $\frac{3}{8}$ .... $\frac{2}{8}$

c $\frac{7}{12}$ .... $\frac{7}{11}$

d $\frac{7}{7}$ .... $\frac{6}{7}$

e 1 .... $\frac{9}{10}$

f $\frac{3}{6}$ .... $\frac{1}{2}$

g $\frac{4}{4}$ .... $\frac{12}{13}$

h $\frac{1}{2}$ .... $\frac{7}{10}$

i 1 .... $\frac{5}{5}$

j $\frac{5}{7}$ .... $\frac{15}{21}$

k $\frac{5}{9}$ .... $\frac{5}{7}$

l $\frac{3}{4}$ .... $\frac{6}{8}$

3 Complete each of the following as the example:

Example: $\frac{4}{12} < \frac{5}{12}$

- **a** $\frac{5}{10} > \frac{\dots}{10}$
- **b** $\frac{\dots}{10} = \frac{1}{2}$
- **c** $\frac{1}{2} > \frac{\dots}{10}$
- **d** $\frac{\dots}{12} > \frac{1}{3}$
- **e** $\frac{5}{\dots} < \frac{1}{3}$
- **f** $\frac{\dots}{6} < 1$
- **g** $1 > \frac{\dots}{4}$
- **h** $\frac{2}{3} = \frac{\dots}{9}$

4 Use the signs (< , = or >) to compare as the example:

Example: $\frac{2}{9} < \frac{7}{9}$

- **a** $\frac{1}{4}$ .... $\frac{3}{4}$
- **b** $\frac{5}{7}$ .... $\frac{6}{7}$
- **c** 1 .... $\frac{2}{3}$
- **d** $\frac{4}{6}$ .... $\frac{2}{3}$
- **e** $\frac{4}{5}$ 1
- **f** $\frac{2}{3}$ .... $\frac{2}{7}$
- **g** $\frac{5}{8}$ .... $\frac{5}{9}$
- **h** $\frac{3}{3}$ 1
- **i** $\frac{1}{5}$ .... $\frac{1}{3}$
- **j** $\frac{5}{10}$ .... $\frac{3}{6}$
- **k** $\frac{4}{3}$ .... $\frac{2}{3}$
- **l** $\frac{7}{7}$ .... $\frac{4}{4}$
- **m** $\frac{4}{9}$ .... $\frac{4}{7}$
- **n** $\frac{3}{5}$ 1

5 Circle the smallest fraction:

- **a** $\frac{1}{4}$, $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{5}$
- **b** $\frac{2}{5}$, $\frac{2}{3}$, $\frac{2}{7}$, $\frac{2}{6}$
- **c** $\frac{3}{9}$, $\frac{7}{9}$, $\frac{1}{9}$, $\frac{5}{9}$
- **d** $\frac{1}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, $\frac{2}{5}$
- **e** $\frac{6}{7}$, $\frac{2}{7}$, $\frac{5}{7}$, $\frac{3}{7}$
- **f** $\frac{7}{11}$, $\frac{4}{11}$, $\frac{5}{11}$, $\frac{3}{11}$
- **g** $\frac{6}{11}$, $\frac{6}{7}$, $\frac{6}{13}$, $\frac{6}{9}$
- **h** $\frac{3}{4}$, 1 , $\frac{1}{2}$, $\frac{5}{6}$

6 Circle the greatest fraction as the example:

Example: $\frac{3}{5}$, $\frac{3}{4}$, $\frac{3}{7}$, $\frac{3}{8}$

a) $\frac{1}{3}$, $\frac{1}{5}$, $\frac{1}{4}$, $\frac{1}{2}$

b) $\frac{1}{12}$, $\frac{7}{12}$, $\frac{11}{12}$, $\frac{5}{12}$

c) $\frac{3}{3}$, $\frac{3}{9}$, $\frac{3}{10}$, $\frac{3}{4}$

d) $\frac{2}{7}$, 1 , $\frac{3}{7}$, $\frac{4}{5}$

e) $\frac{3}{5}$, $\frac{4}{10}$, $\frac{4}{5}$, $\frac{1}{5}$

f) $\frac{3}{13}$, $\frac{8}{13}$, $\frac{9}{13}$, 1

g) $\frac{1}{6}$, $\frac{3}{6}$, $\frac{4}{12}$, $\frac{5}{6}$

7 Arrange each of the following in ascending order as the example:

Example: 🕮 $\frac{4}{6}$, $\frac{1}{6}$, $\frac{2}{6}$ the order is $\frac{1}{6}$, $\frac{2}{6}$ and $\frac{4}{6}$

a) $\frac{3}{7}$, 1 , $\frac{2}{7}$, $\frac{5}{7}$

b) 🕮 $\frac{5}{8}$, $\frac{7}{8}$, 1 , $\frac{1}{8}$

c) $\frac{2}{5}$, $\frac{3}{5}$, 1 , $\frac{4}{5}$

d) $\frac{2}{5}$, $\frac{2}{7}$, $\frac{2}{3}$, $\frac{2}{9}$

8 Arrange each of the following in descending order:

a) 🕮 $\frac{1}{5}$, $\frac{3}{5}$, $\frac{5}{5}$

b) $\frac{3}{7}$, 1 , $\frac{2}{7}$, $\frac{5}{7}$

c) 🕮 $\frac{2}{9}$, $\frac{7}{9}$, $\frac{5}{9}$ and 1

d) $\frac{3}{12}$, $\frac{5}{12}$, $\frac{9}{12}$, $\frac{1}{12}$

e) $\frac{1}{2}$, $\frac{2}{8}$, $\frac{1}{6}$, $\frac{1}{5}$

9 Arrange in ascending order:

a $\frac{1}{7}$, $\frac{2}{7}$, $\frac{5}{7}$, $\frac{4}{7}$

b $\frac{3}{7}$, $\frac{3}{8}$, $\frac{3}{5}$, 1

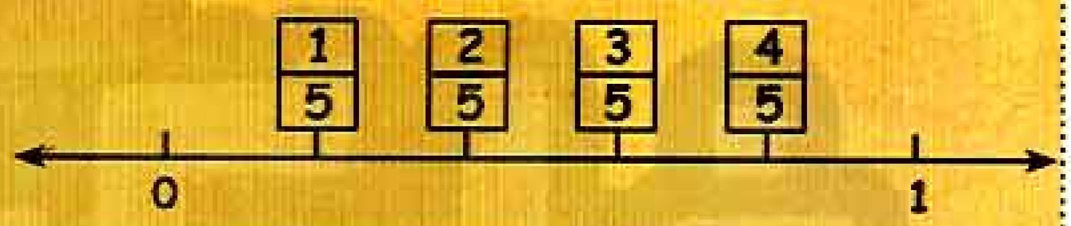
c $\frac{4}{4}$, $\frac{2}{4}$, $\frac{1}{7}$, $\frac{3}{7}$

d $\frac{3}{8}$, $\frac{1}{4}$, $\frac{7}{8}$, $\frac{5}{8}$

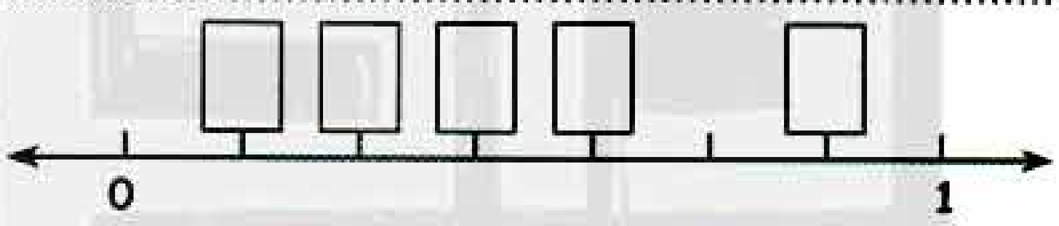
e $\frac{1}{6}$, $\frac{3}{6}$, $\frac{4}{12}$, $\frac{5}{6}$

10 Write each fraction in its suitable place on the number line:

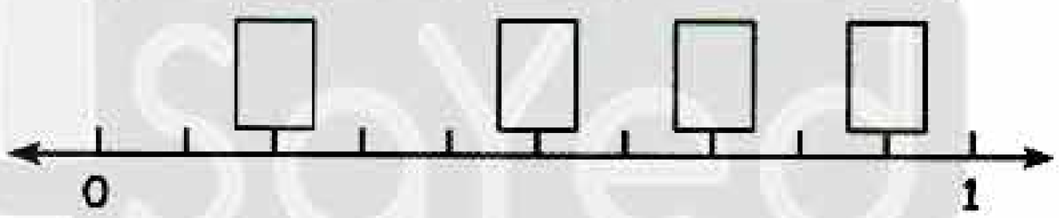
Example: $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$, $\frac{3}{5}$



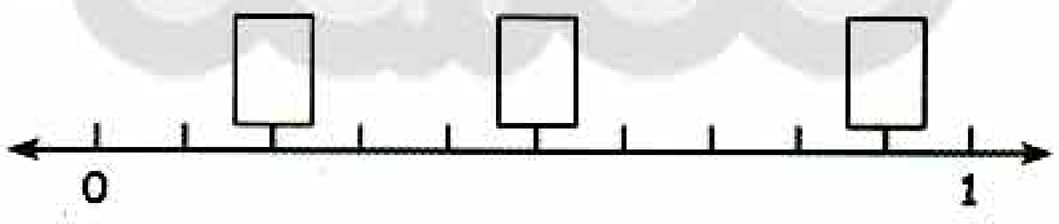
a $\frac{3}{7}$, $\frac{1}{7}$, $\frac{2}{7}$, $\frac{6}{7}$, $\frac{4}{7}$



b $\frac{9}{10}$, $\frac{7}{10}$, $\frac{2}{10}$, $\frac{5}{10}$



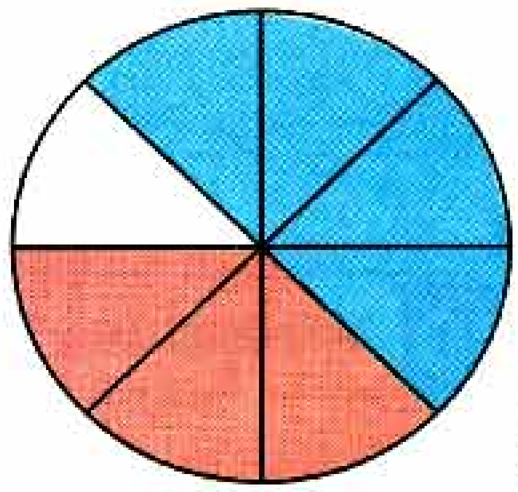
c $\frac{1}{2}$, $\frac{1}{5}$, $\frac{9}{10}$



Lesson 4

Adding and subtracting fractions

First Adding fractions



The **blue** shaded parts represent $\frac{4}{8}$

The **red** shaded parts represent $\frac{3}{8}$

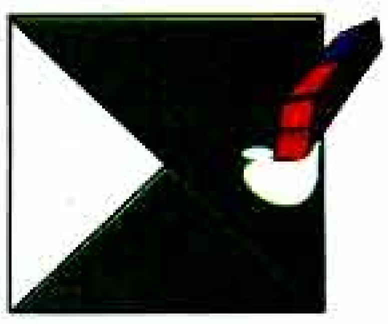
The total shaded parts represent $\frac{7}{8}$

So $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$

Add the numerators, then put the same denominator

Second Subtracting fractions

Ahmed coloured 3 equal parts of the figure, then he put the sign x on two of them.



How many parts are left without adding the sign x?

So the number of parts = $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$

Subtract the numerators, then put the same denominator.

Examples and Exercises

Complete each of the following as the example:

Example: $\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$ $\qquad 1 - \frac{3}{7} = \frac{7}{7} - \frac{3}{7} = \frac{4}{7}$

a $\frac{6}{11} - \frac{2}{11} = \frac{\dots}{\dots}$

b $1 - \frac{2}{19} = \frac{\dots}{19} - \frac{2}{19} = \frac{\dots}{\dots}$

c $\frac{3}{5} - \frac{2}{5} = \frac{\dots}{\dots}$

d $1 - \frac{1}{8} = \frac{\dots}{8} - \frac{1}{8} = \frac{\dots}{\dots}$

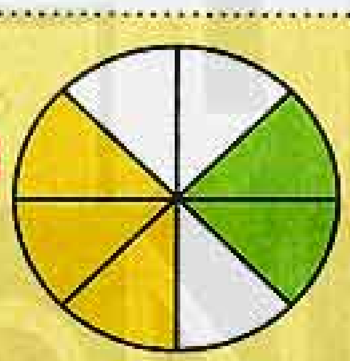
e $\frac{5}{10} - \frac{3}{10} = \frac{\dots}{\dots}$

f $1 - \frac{2}{12} = \frac{\dots}{12} - \frac{2}{12} = \frac{\dots}{\dots}$

Exercise 4 Adding and subtracting fractions

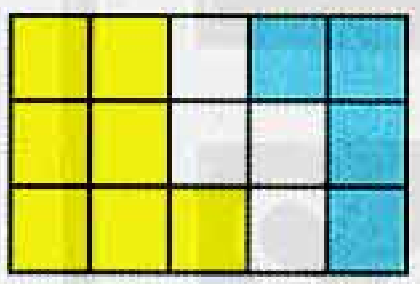
1 Complete each of the following as the example:

Example:



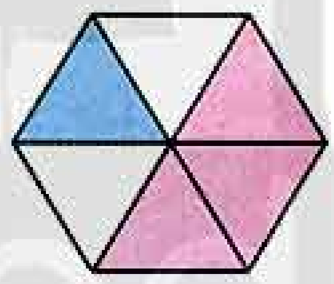
$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

a



$\frac{7}{15} + \frac{4}{15} = \frac{\dots}{\dots}$

b



$\frac{1}{6} + \frac{3}{6} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

2 Add:

a $\frac{1}{4} + \frac{2}{4} = \frac{\dots}{\dots}$

b $\frac{2}{7} + \frac{4}{7} = \frac{\dots}{\dots}$

c $\frac{5}{8} + \frac{1}{8} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

d $\frac{6}{11} + \frac{4}{11} = \frac{\dots}{\dots}$

e $\frac{1}{3} + \frac{2}{3} = \frac{\dots}{\dots} = \dots\dots\dots$

f $\frac{3}{10} + \frac{4}{10} = \frac{\dots}{\dots}$

g $\frac{3}{5} + \frac{2}{5} = \frac{\dots}{\dots} = \dots\dots\dots$

h $\frac{1}{7} + \frac{3}{7} + \frac{2}{7} = \frac{\dots}{\dots}$

i $\frac{3}{9} + \frac{2}{9} + \frac{2}{9} = \frac{\cdots}{\cdots}$

j $\frac{4}{13} + \frac{2}{13} + \frac{5}{13} = \frac{\cdots}{\cdots}$

k $\frac{6}{15} + \frac{8}{15} + \frac{1}{15} = \frac{\cdots}{\cdots} = \cdots$

l $\frac{3}{8} + \frac{2}{8} + \frac{1}{8} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

3 Match the equal results:

a $\frac{1}{10} + \frac{4}{10}$ **b** $\frac{2}{9} + \frac{5}{9}$ **c** $\frac{5}{8} + \frac{3}{8}$ **d** $\frac{1}{6} + \frac{3}{6}$ **e** $\frac{5}{18} + \frac{3}{18}$

1 $\frac{2}{3}$ **2** $\frac{4}{9}$ **3** $\frac{1}{2}$ **4** 1   **5** $\frac{7}{9}$

4 Add and simplify the sum to its simplest form as the example:

Example: $\frac{3}{7} + \frac{4}{7} = \frac{7}{7} = 1$

a $\frac{8}{15} + \frac{7}{15} = \frac{\cdots}{\cdots} = \cdots$

b $\frac{1}{6} + \frac{2}{6} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

c $\frac{4}{9} + \frac{2}{9} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

d $\frac{6}{11} + \frac{5}{11} = \frac{\cdots}{\cdots} = \cdots$

e $\frac{1}{18} + \frac{5}{18} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

f $\frac{7}{16} + \frac{4}{16} + \frac{3}{16} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

g $\frac{3}{10} + \frac{5}{10} + \frac{2}{10} = \frac{\cdots}{\cdots} = \cdots$

5 Subtract and simplify the resullt to its simplest form as the example:

Example: $\frac{7}{9} - \frac{5}{9} = \frac{2}{9}$

a $\frac{5}{7} - \frac{3}{7} = \frac{\cdots}{\cdots}$

b $\frac{4}{5} - \frac{2}{5} = \frac{\cdots}{\cdots}$

c $\frac{7}{8} - \frac{3}{8} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

d $\frac{6}{11} - \frac{2}{11} = \frac{\cdots}{\cdots}$

e $\frac{8}{10} - \frac{5}{10} = \frac{\cdots}{\cdots}$

f $\frac{5}{6} - \frac{1}{6} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

g $\frac{11}{14} - \frac{3}{14} = \frac{\cdots}{\cdots} = \frac{\cdots}{\cdots}$

h $1 - \frac{4}{5} = \frac{\cdots}{\cdots}$

i $1 - \frac{1}{2} = \frac{\cdots}{\cdots}$

j $1 - \frac{7}{9} = \frac{\cdots}{\cdots}$

k $1 - \frac{5}{8} = \frac{\cdots}{\cdots}$

6 Complete each of the following as the example:



Example: $\frac{3}{7} + \frac{1}{7} = \frac{4}{7}$ then $\frac{4}{7} - \frac{3}{7} = \frac{1}{7}$ and $\frac{4}{7} - \frac{1}{7} = \frac{3}{7}$

a $\frac{4}{9} + \frac{2}{9} = \frac{\dots}{\dots}$ then $\frac{\dots}{\dots} - \frac{2}{9} = \frac{\dots}{\dots}$ and $\frac{\dots}{\dots} - \frac{4}{9} = \frac{\dots}{\dots}$

b $\frac{2}{5} + \frac{3}{5} = \frac{\dots}{\dots} = 1$ then $1 - \frac{2}{5} = \frac{\dots}{\dots}$ and $1 - \frac{\dots}{\dots} = \frac{2}{5}$

7 Complete each of the following as the example:

Example: $\frac{1}{7} + \frac{4}{7} = \frac{5}{7}$

a $\frac{3}{9} + \frac{\dots}{\dots} = \frac{4}{9}$

b $\frac{\dots}{\dots} + \frac{2}{9} = \frac{7}{9}$

c $\frac{5}{7} + \frac{\dots}{\dots} = 1$

d $\frac{7}{8} - \frac{\dots}{\dots} = \frac{5}{8}$

e $\frac{9}{11} - \frac{\dots}{\dots} = \frac{3}{11}$

f $1 - \frac{1}{2} = \frac{\dots}{\dots}$

g $\frac{\dots}{\dots} - \frac{1}{6} = \frac{4}{6}$

h $\dots - \frac{3}{4} = \frac{1}{4}$

i $1 - \frac{\dots}{\dots} = \frac{1}{3}$

j $\frac{5}{12} + \frac{\dots}{\dots} = \frac{9}{12}$

k $\frac{3}{5} + \frac{\dots}{\dots} = 1$

l $\frac{\dots}{\dots} - \frac{4}{7} = \frac{2}{7}$

m $\frac{\dots}{\dots} - \frac{3}{8} = \frac{1}{2}$

8 Match the equal results:

a $\frac{3}{5} + \frac{1}{5}$

b $\frac{4}{7} + \frac{3}{7}$

c $\frac{5}{9} + \frac{1}{9}$

d $\frac{1}{2} + \frac{1}{4}$

e $\frac{2}{6} + \frac{1}{6}$

f $\frac{3}{8} + \frac{4}{8}$

1 $\frac{3}{4} + \frac{1}{4}$

2 $1 - \frac{1}{4}$

3 $1 - \frac{1}{2}$

4 $1 - \frac{1}{5}$

5 $1 - \frac{1}{8}$

6 $\frac{8}{9} - \frac{2}{9}$



9 Put the suitable sign (< , = or >) as the example:

Example: $\frac{3}{8} + \frac{2}{8}$ > $\frac{6}{8} - \frac{4}{8}$

a) $1 - \frac{7}{11}$ .... $\frac{3}{11} + \frac{1}{11}$

b) $\frac{3}{7} + \frac{4}{7}$ .... $\frac{2}{5} + \frac{3}{5}$

c) $\frac{4}{9} + \frac{1}{9}$ .... $\frac{8}{9} - \frac{1}{9}$

d) $\frac{1}{5} + \frac{1}{5}$ .... $1 - \frac{3}{5}$

e) $\frac{4}{11} + \frac{3}{11}$ .... $\frac{2}{9} + \frac{5}{9}$

Real Life Problems

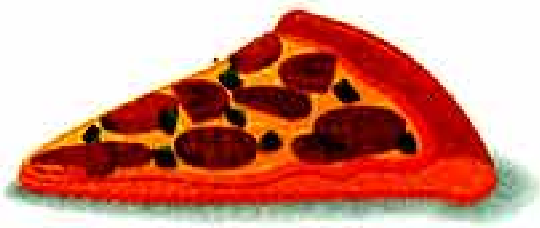
Read > Plan > Do > Answer > Check

10 Sami has L.E. $\frac{1}{4}$ and his father gives him L.E. $\frac{3}{4}$.

How much money does Sami have now?

What Sami has = $\frac{.....}{.....} + \frac{.....}{.....}$ = L.E. ....

11 Maged divided a pie into 8 equal pieces,
he ate 4 pieces and his friend Hany ate 3 pieces.



What is the fraction of the left pieces?

12 Ali had L.E. 1 , he bought a pen for L.E. $\frac{3}{4}$.

How much money was left with him?

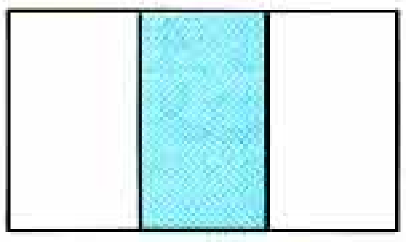


General Exercises from the School Book

Answer the following questions:

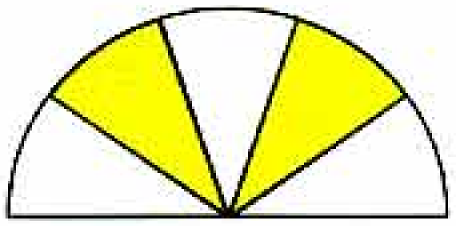
1 Write the fraction which represents the shaded part in each of the following figures:

a



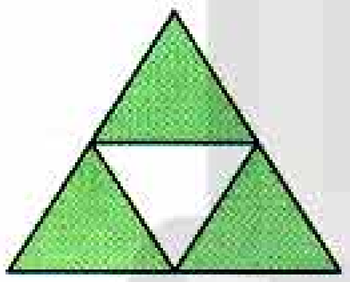
The fraction = $\frac{\dots}{\dots}$

b



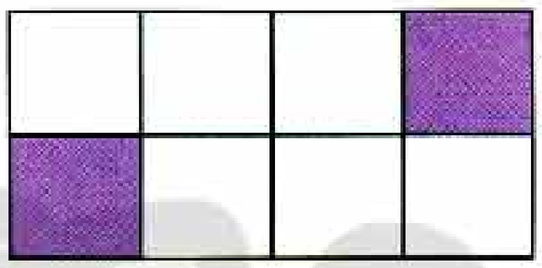
The fraction = $\frac{\dots}{\dots}$

c



The fraction = $\frac{\dots}{\dots}$

d



The fraction = $\frac{\dots}{\dots}$

2 Choose the correct answer from those between brackets:

a Six fifths = ... $(\frac{5}{6}$ or $\frac{6}{5}$ or $\frac{2}{6})$

b $\frac{2}{5} + \frac{3}{5} =$ .... $(\frac{1}{5}$ or 1 or $\frac{4}{5})$

c $2 = \frac{6}{\dots}$ (3 or 6 or 2)

d Two sevenths + 3 sevenths = ... $(\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{3}{7})$

e $\frac{9}{27} = \frac{1}{\dots}$ (3 or 5 or 7)

f $\frac{5}{7}$ .... $\frac{6}{7}$ (> or < or =)

g $\frac{15}{20} = \frac{\dots}{4}$ (3 or 5 or 7)

3 Complete in the same pattern:

a) Four fifths = $\frac{\dots}{\dots}$

b) $\frac{7}{9} - \frac{2}{9} = \frac{\dots}{9}$

c) $\frac{3}{5} + \frac{2}{5} = \frac{\dots}{\dots} = \dots$

d) $1 - \frac{3}{4} = \frac{\dots}{\dots}$

e) $\frac{2}{7} + \frac{\dots}{\dots} = \frac{6}{7}$

f) $\dots - \frac{4}{9} = \frac{3}{9}$

4 Put the suitable mark of (> , < or =):

a) $\frac{3}{5} - \frac{1}{5}$ .... $\frac{3}{5}$

b) $\frac{7}{9}$ .... $\frac{5}{9} - \frac{2}{9}$

c) Four ninths .... $\frac{7}{9}$

d) $\frac{1}{3}$ .... $1 - \frac{2}{3}$

e) $\frac{3}{7}$ .... $\frac{2}{7}$

5

A box of cheese contains 8 equal pieces. Rania ate two pieces. **Write the fraction which represents what Rania ate relative to all pieces in the case.**

6

A piece of land is divided into 9 equal parts. A part of them is planted with cotton, three parts are planted with rice, two parts are planted with wheat.

Write what each of the following represents with respect to the original piece of land.

a) The part which is planted with cotton.

b) The land which is planted with rice.

c) The land which is planted with wheat.

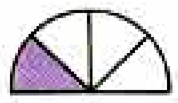
Test on Unit (3)

1 Complete each of the following:

a $\frac{5}{9} - \frac{4}{9} = \frac{\dots}{\dots}$

b $\frac{3}{7} + \frac{2}{7} = \frac{\dots}{\dots}$

c $\frac{15}{20} = \frac{3}{\dots}$

d The fraction which represents the shaded part in the figure  is $\frac{\dots}{\dots}$

2 Choose the correct answer from those between brackets:

a $\frac{7}{9}$ ...... $\frac{7}{9} - \frac{2}{9}$ (> or < or =)

b $\frac{3}{7} + \frac{4}{7}$ ...... 1 (> or < or =)

c Six fifths = ... (5 or $\frac{6}{5}$ or $\frac{5}{6}$)

d $\frac{7}{10}$ = ... ($\frac{9}{10} - \frac{1}{10}$ or $\frac{14}{20}$ or $\frac{7}{10} - \frac{5}{10}$)

e $\frac{2}{7} = \frac{10}{\dots}$ (7 or 14 or 35)

3

a Arrange in ascending order $\frac{1}{8}$, $\frac{4}{8}$, $\frac{3}{8}$, $\frac{7}{8}$, 1

b Put the suitable sign (= , > or <):

1. $\frac{1}{3}$ ...... $1 - \frac{2}{3}$
2. Three fifths ...... two thirds.
3. $\frac{4}{6}$ ...... four sixths
4. $\frac{1}{4} + \frac{2}{4}$ 1
5. $\frac{3}{5} - \frac{2}{5}$ ...... $\frac{7}{10} - \frac{3}{10}$

4

Essam had L.E. 1 and he bought a pen for L.E. $\frac{3}{4}$. How much money was left with him?

The left money = ... = L.E. ....

Unit Four



Measuring

Lessons of the unit

Lesson 1

Measuring temperature



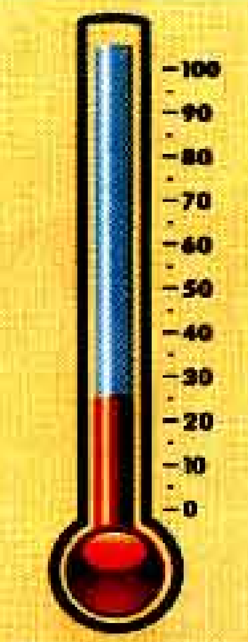
Note that:

- **a** The instrument used to measure temperature is thermometer.
- **b** The unit of measuring temperature is the degree Celsius.
- **c** The normal human body temperature is 37 °C.
- **d** The boiling point of water is 100 °C.
- **e** The freezing point is zero °C.
- **f** Room temperature is 20 °C.

Examples and Exercises

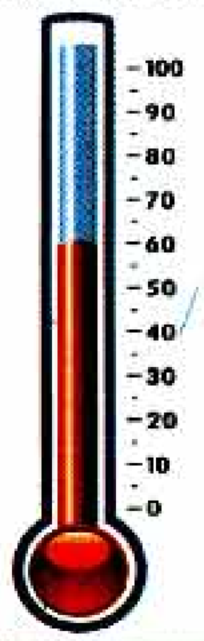
1 Write the temperature as the example:





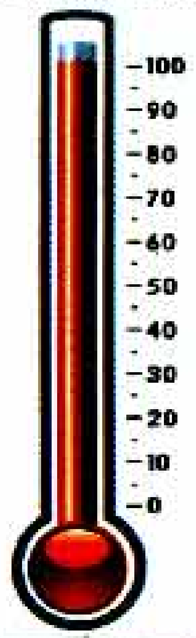
25 °C

a



.... °C

b



.... °C

2 Complete each of the following as the example:



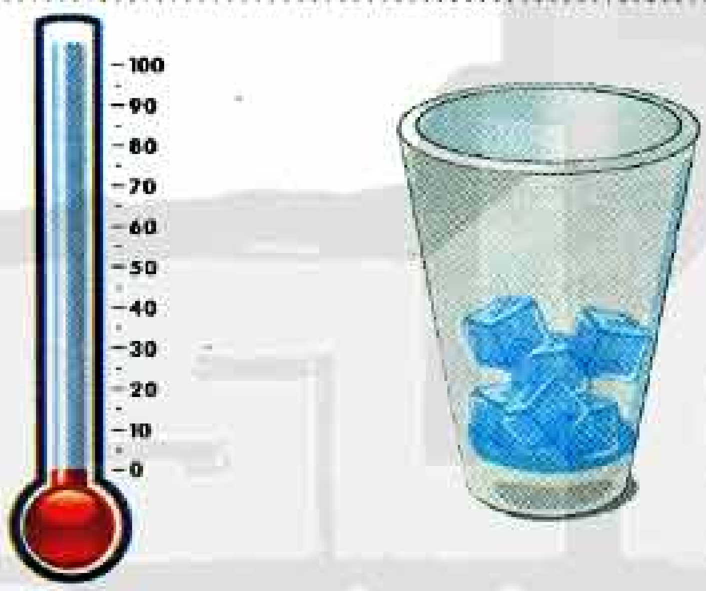
Body temperature is 37 °C.

a



Hot soup temperature is .... °C.

b



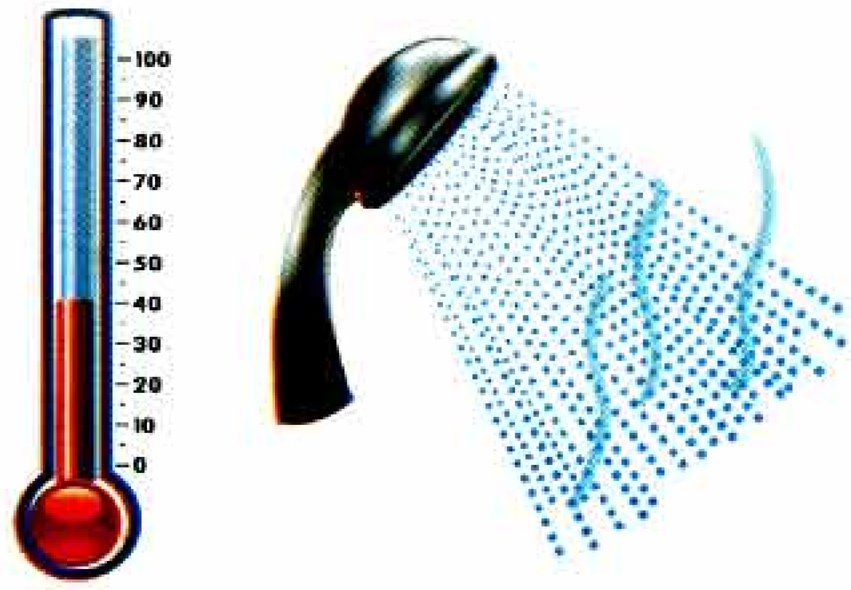
Crushed ice temperature is ...... °C.

c



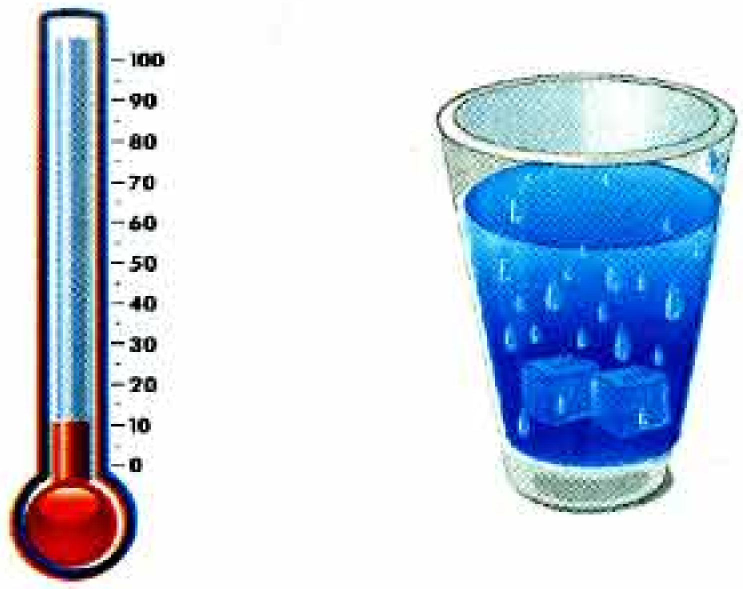
Boiling water temperature is ..... °C.

d



Hot shower temperature is .... °C.

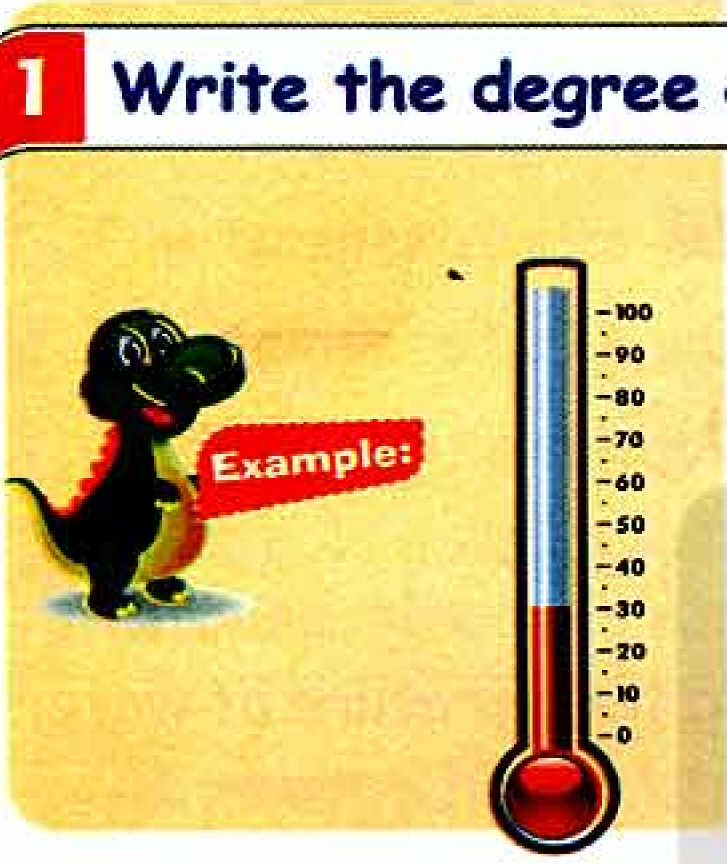
e



Cold water temperature is .... °C.

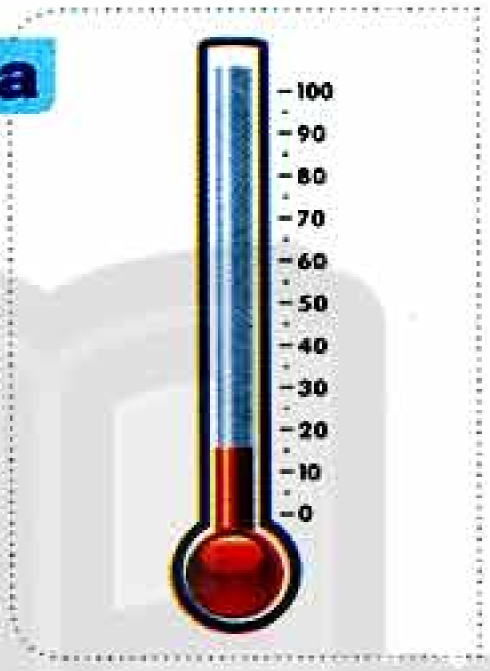
Exercise 1 Measuring temperature

1 Write the degree of the given thermometers as the example:



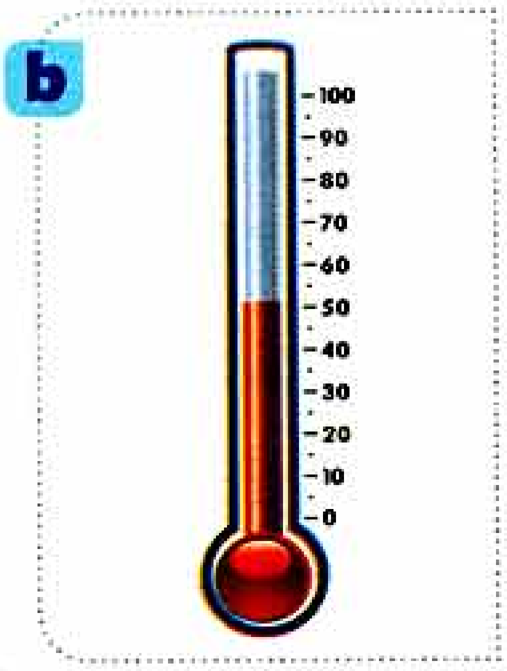
The temperature is **30°C**.

a



The temperature is .... °C.

b



The temperature is .... °C.

2 Choose the best estimation of the temperature as the example:



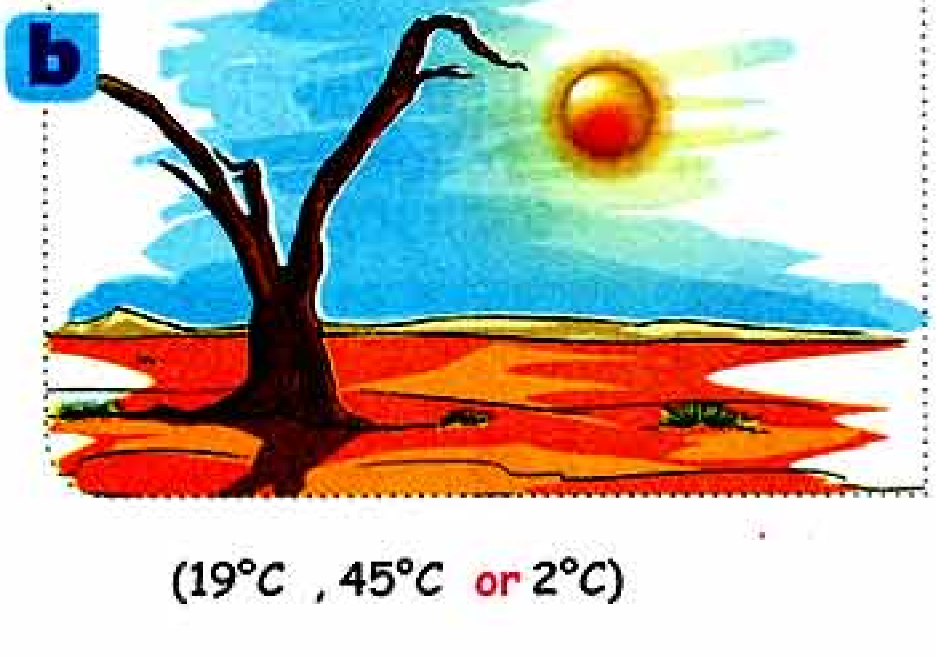
(70°C , 3°C or **32°C**)

a



(0°C , 37°C or 50°C)

b



(19°C , 45°C or 2°C)

c



(0°C , 24°C or 60°C)

3 Complete each of the following as the example:



Example: Thermometer is used for measuring temperature.

a Temperature is usually estimated by units called ....

b The normal human temperature is .... °C.

c The temperature of boiling water is .... °C.

d The water freezes at .... °C.

e The difference between the boiling and freezing temperature of water is .... °C.

4 By using the information of weather stated in the newspaper, Hani tried to answer the following questions from the following table:

Cairo	Alexandria	Matrouh	Port Said	Luxor	Assuit	Sharm El Sheikh
25°C	20°C	18°C	23°C	40°C	34°C	35°C

a The city which has a cold weather is ....

b The city which has a warm weather is ....

c The city which has a hot weather is ....

d The city which has a very hot weather is ....

e The difference between the highest and the lowest temperatures is ....°C.

5 Using the information about weather stated in the newspaper, Hadeer tried to answer the following questions from the following table:

Day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	20°C	17°C	21°C	23°C	20°C	18°C	22°C

a The highest temperature was .... °C on ....

b The lowest temperature was .... °C on ....

c The difference between the highest and the lowest temperatures is .... °C.

d The temperatures are equal on .... and ....

e The coldest day was ....

f The temperatures were more than 20°C on ...., ... and ....

g The temperatures were less than 20°C on .... and ....

h On Sunday, it's suitable to wear .... clothes. (light or normal or heavy).

6 Choose the correct answer as the example:

Example: **If the higher temperature in one day is 40°C, then the lower temperature in that day is 21°C.**

(42°C or 40°C or 41°C or 21°C)

a A person can have a bath with water of temperature ....

(zero°C or 35°C or 90°C or 99°C)

b My mother took my sick younger brother to the doctor. His temperature was .... (39°C or 50°C or 80°C or 90°C)

c The body temperature of a non-sick person is ....

(17°C or 27°C or 37°C or 47°C)

d I wear light clothes like shorts and a T-shirt when the temperature is .... (15°C or 20°C or 40°C or 10°C)

e In winter, we wear .... clothes. (light or normal or heavy)

f In spring, we wear .... clothes. (light or normal or heavy)

g In summer, we wear .... clothes. (light or normal or heavy)

h In autumn, we wear .... clothes. (light or normal or heavy)

i We can drink a cup of cold water when its temperature is nearly ....

(zero°C or 10°C or 40°C or 80°C)

7 Put the suitable mark (✓) or (✗) as the example:

Example: The temperature at which water boils is 0° C. (✗)

a) A person can wash his body using water of temperature 89°C. (   )

b) We can drink water of temperature zero°C. (   )

c) The temperature of a person may be 70°C. (   )

d) If 17°C was the lowest temperature in a day, then the highest temperature may be 28°C. (   )

e) I wear heavy clothes when the temperature is 15°C. (   )

8 The following table represents the higher temperatures and lower temperatures in some Egyptian cities on a day. Look at the table and then complete:

City	Higher temperatures	Lower temperatures
Cairo	22°	11°
Alexandria	21°	12°
Matrouh	19°	12°
Aswan	26°	11°
Assiut	23°	8°
Port Said	21°	16°
Sharm El Sheikh	26°	14°
Ismailia	22°	11°
Suez	23°	11°
El Arish	22°	10°
Taba	32°	9°
Tur	23°	13°
Hurghada	28°	14°
Rafah	22°	9°
Saint Catherine	17°	7°
Siwa	21°	8°
Minya	23°	8°
Fayoum	22°	12°
Sidr	22°	13°
Sohag	23°	10°
Luxor	25°	10°

a) The highest of higher temperatures was .... °C in .... and the lowest one was .... °C in ....

b) The highest of lower temperatures was .... °C in .... and the lowest was .... °C in ....

c) In which season, the temperatures in this table were measured?

d) If you want to go on a trip on this day, you would prefer to go to .... according to the temperatures.

Lesson 2

Measuring length

Do you know some units for measuring lengths?



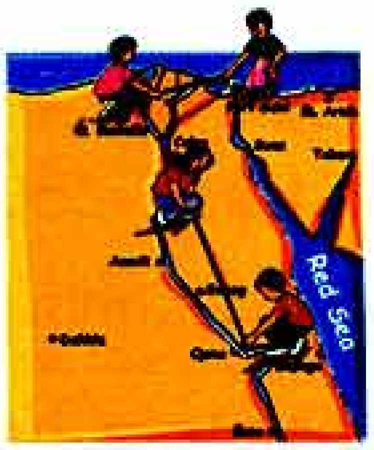
The centimetre (cm):

to measure small lengths.
[key, pencil, ...]



The metre (m):

to measure medium lengths.
[rooms, buildings, ...]



The kilometre (km):

to measure long lengths.
[the distance between two cities, ...]

Note that:

a 1 metre = 100 centimetres. *i.e.* 1 m = 100 cm

b 1 kilometre = 1000 metres. *i.e.* 1 km = 1000 m

Examples and Exercises

1 Write the suitable unit (km, m or cm) as the example:

Example: The length of a ruler: "cm".

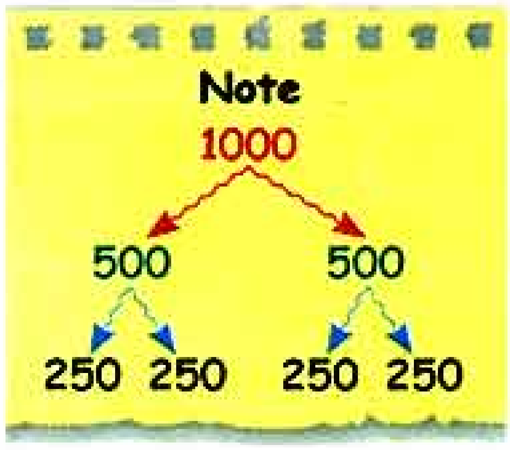
a The distance between Cairo and Luxor: ....

b The height of Cairo Tower: ....

c The length of the book of maths: ....

Note that:

- 1 kilometre = 1000 metres
- $\frac{1}{2}$ km = 500 m
- $\frac{1}{4}$ km = 250 m
- $\frac{3}{4}$ km = 750 m



2 Complete as the example:

Example: 3 km = 3000 m , 5455 m = 5 km , 455 m

a) 2 kilometres and a half = ... m.

b) 7 km and 100 m = ... m.

c) 25 km = ... m.

d) 30000 m = ... km.

e) 5 kilometres and a quarter = ... m.

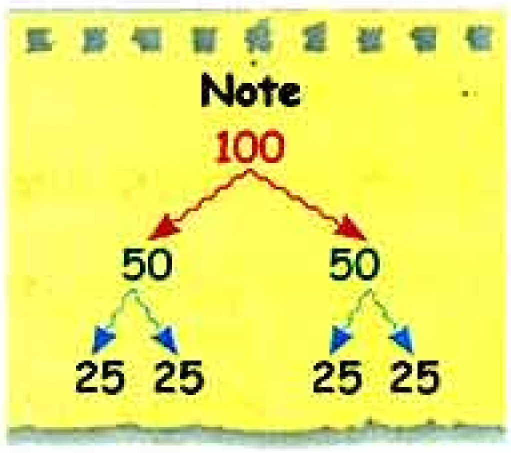
f) 14030 metres = ... km, ... m.

g) 8250 metres = ... km, ... m.

Note that:

1 metre = 100 centimetres , $\frac{1}{2}$ m = 50 cm

$\frac{1}{4}$ m = 25 cm , $\frac{3}{4}$ m = 75 cm



Exercise 2 — Measuring length

1 Complete as the example:

Example: One kilometre = **1000** metres

a 5 km = ... m

b 8 km = ... m

c .... km = 3000 m

d .... km = 9000 m

e 27 km = ... m

f .... km = 56000 m

g 4 metres = ... centimetres.

h 6 m = ... cm

i .... m = 700 cm

j 35 m = ... cm

k .... m = 9400 cm

l .... m = 5000 cm

m 460 m = ... cm

n .... m = 70000 cm

2 Complete as the example:

Example: 5 kilometres and 450 metres = **5 450** metres.

a 8 kilometres and 325 metres = ... metres.

b 17 kilometres and 82 metres = ... metres.

c 36 kilometres and 7 metres = ... metres.

d 29 kilometres and 56 metres = ... metres.

e .... kilometres and .... metres = 7385 metres.

f .... kilometres and 50 metres = 40050 metres.

g 6 metres and 84 centimetres = ... centimetres.

h 15 metres and 28 centimetres = ... centimetres.

i .... metres and .... centimetres = 840 centimetres.

j .... metres and 18 centimetres= 618 centimetres.

k 30 metres and .... centimetres = 3005 centimetres.

3 Complete as the example:

Example: **4 km, 255 m = 4 225 m.**

a 35 km , 85 m = ... m

b .... km, ... m = 2387 m

c .... km, ... m = 8526 m

d .... km, ... m = 72034 m

e 2 m, 76 cm = ... cm

f 9 m, 38 cm = ... cm.

g 46 m, 4 cm = ... cm

h .... m, ... cm = 852 cm

i .... m, ... cm = 305 cm

j 85 m, ... cm = 8506 cm

4 Complete as the example:

Example: **8 metres = 800 centimetres , 315 cm = 3 m , 15 cm**

a 5 metres = ... centimetres.

b 20 m = ... cm.

c 2400 centimetres = ... metres.

d 509 cm = ... m and .... cm.

e 3 metres and a quarter = ... cm.

f $6\frac{1}{2}$ metres = ... centimetres.

g 275 centimetres = ... metres.

5 Join the equal distances as the example:

Example:

3 km and 100 m	750 cm	3 kilometres and a quarter	3000 cm
7 metres and a half	3100 m	30 metres	3250 m

6 Put the suitable sign (> , = or <) as the example:

Example: 2 km > 1999 m

- **a** 5 kilometres and a half ☐ 5050 metres
- **b** 8 and three quarters metres ☐ 875 centimetres
- **c** 1000 metres ☐ 10 kilometres
- **d** 6300 metres ☐ 6 kilometres and $\frac{1}{4}$
- **e** $\frac{1}{4}$ km + 750 m ☐ one kilometre

7 Choose the correct answer as the Example:

Example: $\frac{1}{2}$ km, 50m = 550m (300 or 500 or 550)

- **a** $\frac{1}{4}$ km, 35 m = ... m (60 or 285 or 700)
- **b** 5400 m = 5 km, ... m (4 or 40 or 400)
- **c** 7020 m = 7 km, ... m (2 or 20 or 200)
- **d** 2 m, 5 cm = ... cm (25 or 205 or 250)
- **e** $\frac{1}{4}$ m, 20 cm = ... cm (45 or 55 or 70)

8 Arrange the following lengths ascendingly:

a $3\frac{1}{2}$ m , 3 m and 5 cm , one kilometre and 325 cm

The order is .... , ... , ... , ...

b 2 kilometres , 2100 metres , $2\frac{1}{2}$ kilometres and 1900 metres

The order is .... , ... , ... , ...

9 What is your estimation for the following lengths? Underline the answer you find suitable as the example:



Example: **The perimeter of the playground:** (**100 km** or **100 m** or **1 km**)

a The distance between two Egyptian cities: (10000 km or 3000 km or 200 km)

b The height of a child: (140 cm or 2 m or 1 km)

c The length of a pen: (20 cm or 2 m or 2 cm)

d The height of Cairo Tower: (20 m or 180 m or 800 m)

e The height of your classroom: (300 cm or 30 m or 1 m)

f $3\frac{1}{2}$ km .... 3500 m. (> or = or <)

g 3 km + 950 m is closer to: (3 km or 4 km or 10 km)

10 Change from kilometres to metres:



Example: **5 kilometres = 5 km = 5000 m**

a 15 kilometres = 15 km = ... m

b 12 kilometres = 12 km = ... m

11 Change from metres to centimetres:

a 25 metres

25 m = ... cm.

b 43 metres

43 m = ... cm.

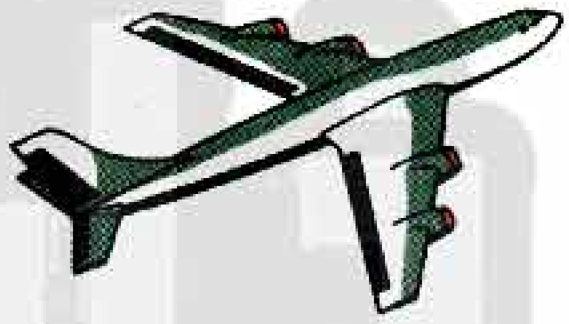
c 570 metres

570 m = ... cm.

12 Choose a suitable unit of length (centimetre-metre-kilometre) for each of the following measurements:

a The distance between Cairo and Amman

....



b The length of the swimming pool

....



c The distance between Cairo and Alexandria

....



d The length of a pencil

....



13 What is your estimation for the following lengths? Underline the answer you find suitable:

The perimeter of the playground: (100 km - 100 m - 1 km)
The distance between two Egyptian cities: (10000 km - 3000 km - 200 km)
The length of a school notebook: (25 cm - 1 m - 1 km)
The height of a child: (140 cm - 2 m - 1 km)

14 Complete as the example:

Example: $\frac{1}{2}$ km = 500 m

a $\frac{3}{4}$ km = ... m
b $\frac{1}{4}$ km = ... m
c $6\frac{1}{2}$ km = ... m
d $7\frac{1}{4}$ km = ... m
e $8\frac{3}{4}$ km = ... m
f $32\frac{1}{4}$ km = ... m

g $65\frac{1}{4}$ km = ... m
h $\frac{1}{2}$ m = ... cm
i $\frac{1}{4}$ m = ... cm
j $\frac{3}{4}$ m = ... cm
k $2\frac{1}{2}$ m = ... cm
l $5\frac{1}{4}$ m = ... cm

m $6\frac{3}{4}$ m = ... cm
n $46\frac{1}{2}$ m = ... cm
o $70\frac{1}{4}$ m = ... cm
p 3250 m = ... km
q 19750 m = ... km

15 Choose the correct answer as the example:

Example: One kilometre = 1000 m. (10 or 100 or 1000)

a $3\frac{1}{2}$ km = ... m. (35 or 3500 or 350)

b The distance between Tanta and Banha is ....
(2000 cm or 44 km or 84 m)

c The length of the classroom is .... (6 m **or** 3 km **or** 25 cm)

d The length of the swimming pool is .... (10 cm **or** 10 m **or** 10 km)

e The length of a pen is .... (15 cm **or** 15 m **or** 15 km)

f The length of the playground is .... (90 km **or** 90 cm **or** 90 m)

g The height of a window is .... (120 cm **or** 120 m **or** 120 km)

h The height of a child is .... (140 m **or** 14 km **or** 140 cm)

i The height of Cairo Tower is .... (180 m **or** 180 cm **or** 180 km)

j The height of of a tree is .... (3 cm **or** 3 m **or** 3 km)

k The length of a notebook is .... (25 cm **or** 1 m **or** 10 km)

l The height of the classroom door is .... (300 m **or** 300 km **or** 200 cm)

m The height of the Great Pyramid is .... (half a kilometre **or** 147 m **or** 300 cm)

n The length of your trousers is .... (6 m **or** 6 cm **or** 80 cm)

16 Put the suitable mark (✓) or (✗) as the example:



Example: 3 km, 750 m = 3750 m (✓)

a 500 m + 750 m = 1250 m ( )

b 4000 m + 5 km = 9000 m ( )

c 750 m + 600 cm = 756 m ( )

d 3 km + 500 m = $3\frac{1}{2}$ km ( )

e 5 km, 750 m = 5075 m ( )

f 4 m + 75 cm = $4\frac{3}{4}$ m ( )

g 500 m + 8 cm = 508 cm ( )

h 9 km + 7000 m = 97 km ( )

17 Match the equal distances:

a	4 km and 300 m	1	2500 metres
b	250 cm	2	6020 m
c	2 kilometres and a half	3	403 cm
d	4 metres and 3 cm	4	4300 m
e	6 km, 20 m	5	620 cm
f	6 m, 20 cm	6	$2\frac{1}{2}$ m



18 Put the suitable sign (< , = or >) as the example:



Example: 140 cm < 14 m

a	23 km		2003 m
b	8 km and a quarter		8750 m
c	550 m		5 km and a half
d	$\frac{1}{2}$ m + 30 cm		80 cm
e	1000 cm		10 m
f	$7\frac{1}{4}$ km		7000 m + 350 m
g	$9\frac{3}{4}$ m		9750 cm
h	$\frac{3}{4}$ km + 250 m		one kilometre
i	$1\frac{1}{2}$ km		850 m

19 Arrange the following lengths ascendingly as the example:

Example: **3 km , 4000 cm , 500 m and 2000 m.**
The order is 500 m , 2000 m , 3 km and 4000 cm.

a 1400 m , 2 km , 1000 cm and $1\frac{1}{4}$ km.

The order is .... , ... , ... and ....

b 2520 m , $1\frac{1}{2}$ km , 2000 m and 4650 cm.

The order is .... , ... , ... and ....

c 2 km , $\frac{3}{4}$ km , 250 m and 1250 m

The order is .... , ... , ... and ....

d $2\frac{1}{2}$ m , 205 cm , 805 m and 850 cm

The order is .... , ... , ... and ....

20

The distance between Ahmed's house and his school is 2 km and 750 m. His club is 2250 m away from his house.

What is the difference between the two distances?



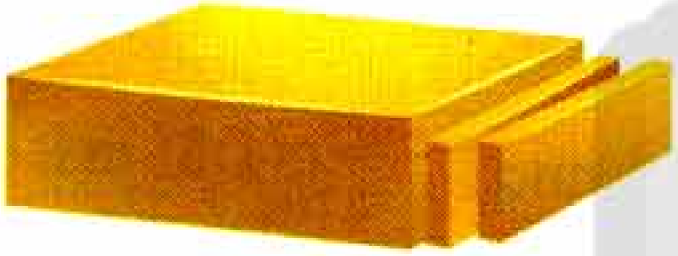
The difference = ... - .... = ... metres.

Lesson 3

Measuring weights

Units of measuring weights

The kilogram (kg): is used to measure heavy things as:





The gram (gm): is used to measure light things as:





Notice:

1 kg = 1000 grams

$\frac{1}{2}$ kg = 500 gm

$\frac{1}{4}$ kg = 250 gm

$\frac{3}{4}$ kg = 750 gm

Examples and Exercises

1 Choose the suitable weight as the example:

Example:



- ✓ ☐ 2 kg
- ☐ 3 gm
- ☐ 25 kg

a



- ☐ 130 gm
- ☐ 5 kg
- ☐ 13 g

b



- ☐ 900 gm
- ☐ 900 kg
- ☐ 90 kg

c



- ☐ 2 kgm
- ☐ 20 gm
- ☐ 20 kg

d



- ☐ 100 kg
- ☐ 100 gm
- ☐ 500 gm

e



- ☐ 35 gm
- ☐ 1 kgm
- ☐ 35 kg

f



- ☐ 200 kg
- ☐ 150 gm
- ☐ 8 kg

g



- ☐ 100 kg
- ☐ 100 gm
- ☐ 1 kg

2 Complete as the example:

Example: 5 kilograms = 5000 gm , 8213 gm = 8 kg , 213 gm

a 3 kilograms = ... grams.

b 12000 grams = ... kilograms.

c 4 kg and 621 gm = ... gm.

d 3506 gm = ... kg and .... gm.

e $7\frac{3}{4}$ kg = ... gm.

Exercise 3 Measuring weight

1 Complete each of the following as the example:



Example: **One kilogram = 1000 grams**

- **a** $\frac{1}{2}$ kg = ... gm
- **b** $\frac{1}{4}$ kg = ... gm
- **c** 3 kg = ... gm
- **d** 8 kg = ... gm
- **e** .... kg = 35000 gm
- **f** .... kg = 7000 gm
- **g** 5 $\frac{3}{4}$ kg = ... gm
- **h** 6 $\frac{1}{4}$ kg = ... gm
- **i** 8 kg and 726 gm = ... gm
- **j** 9 kg and 400 gm = ... gm
- **k** 7 kg and 45 gm = ... gm
- **l** 3 kg and 7 gm = ... gm
- **m** 3065 gm = ... kg, ... gm
- **n** 2405 gm = ... kg and .... gm
- **o** 8750 gm = ... kg
- **p** 11250 gm = ... kg
- **q** 25500 gm = ... kg and .... gm
- **r** .... kg = 40000 gm

2 Choose the correct answer:

- **a** 2 kg = ... gm (200 or 2000 or 20000)
- **b** 3 $\frac{1}{2}$ kg = ... gm (35 or 350 or 3500)
- **c** 6750 gm = ... kg (6 $\frac{3}{4}$ or 6 $\frac{1}{2}$ or 6 $\frac{1}{4}$)
- **d** The weight of a rabbit can be .... (200 gm or 20 kg or 2 kg)
- **e** The weight of my father is .... (95 gm or 95 kg or 950 kg)
- **f** The weight of my shoulder bag of books can be .... (3 kg or 3 gm or 30 kg)
- **g** The weight of a golden bracelet can be .... (2000 kg or 2 kg or 10 gm)

h The weight of fruits that my father bought could be ....

(500 kg **or** 5 kg **or** 5 gm)

i The weight of a sheep can be .... (45 kg **or** 4500 kg **or** 450 gm)

j The weight of a hen can be .... (20 gm **or** 2000 gm **or** 200 kg)

3 Match the equal weights as the example:

Example: 2 kg and 200 gm → 2200 gm

- **a** 4 kg and 6 gm
- **b** $2\frac{3}{4}$ kg
- **c** $3\frac{3}{4}$ kg + 250 gm
- **d** 8800 gm
- **e** 4 kg and 40 gm

1. 2750 gm
2. 4040 gm
3. 4 kg
4. 4006 gm
- 2200 gm
5. 8 kg and 800 gm



4 Circle the better estimation for each weight as the example:

Example:



3 kg **or** (3 gm)

a



100 gm **or** 100 kg

b



200 gm **or** 200 kg

c



4 kg **or** 40 gm

d



250 kg **or** 250 gm

e



30 gm **or** 300 kg

5 Put the suitable sign (< , = or >):

a 8 kg .... 800 gm

b $3\frac{1}{2}$ kg .... 325 gm

c 2200 gm .... $2\frac{1}{2}$ kg

d $6\frac{3}{4}$ kg .... 6750 gm

e 4 kg .... 3999 gm

f 50 gm .... $\frac{1}{2}$ kg

g $8\frac{1}{4}$ kg – 200 gm .... 8050 gm

h 2kg – 50 gm .... 2 kg – 500 gm

i 3 kg + 300 gm .... 4 kg – 600 gm

j 2kg and a quarter .... 2225 gm

6 Put the suitable sign (> , = or <) as the example:



Example: **800 gm < 1 kilogram**

a $\frac{1}{2}$ kg .... $\frac{1}{4}$ kg and 230 gm

b 950 gm .... $\frac{1}{2}$ kg and 450 gm

c 5400 gm .... 5 kg and a half

d 3 kg and 30 gm .... 330 gm

7 Join the equal weights as the example:

Example: 9 kg , 50 gm	$7\frac{1}{4}$ kg
a 7750 gm	$7\frac{3}{4}$ kg
b 7 kg , 2 gm	9050 gm
c 7250 gm	7002 gm



8 Choose the correct answer:

a The weight of a loaf of bread may be .... (15 kg **or** 125 gm **or** $\frac{1}{2}$ kg)

b The weight of a bird may be .... (250 gm **or** 250 kg **or** 10 kg)

c The weight of an elephant may be .... (3 kg **or** 30 kg **or** 2000 kg)

d The weight of meat may be .... (2 gm **or** 2 kg **or** 20 gm)

e The weight of jewellery may be .... (15 kg **or** 150 kg **or** 15 gm)

f The weight of a watermelon may be .... (4 gm **or** 40 gm **or** 4000 gm)

g The weight of a child may be .... (10 kg **or** 10 gm **or** 100 gm)

9 Arrange the following weights ascendingly as the example:



Example: 1 kilogram, 250 gm, 2400 gm and 2 kg.
The order is **250 gm, 1 kg, 2 kg** and **2400 gm.**

a 3 kg , 4050 gm , 500 gm and $4\frac{1}{2}$ kg.
The order is .... , ... , ... and ....

b $5\frac{1}{4}$ kg , 5500 gm , 5300 gm and $5\frac{3}{4}$ kg.
The order is .... , ... , ... and ....

c 830 gm , $\frac{1}{2}$ kg , 350 gm and $\frac{1}{4}$ kg
The order is .... , ... , ... and ....



Real Life Problems

Read › Plan › Do › Answer › Check

10 If the price of a gram of silver is L.E. 3, how much money is a silver pot that weighs 2 kg?



11 Hany bought a bottle of jam of $1\frac{1}{2}$ kg and a packet of tea of 750 gm. What is the total weight in grams?



Lesson 4

Measuring time

First Telling the time:

Prelude:

Note the hands of hours and minutes and read the time



It's quarter past eleven
11:15



It's twelve o'clock
12:00



It's twenty past three
3:20



It's half past nine
9:30

Examples and Exercises

1 Note the hand of minutes in each of the following and how it reads.



35 past



25 past



ten past



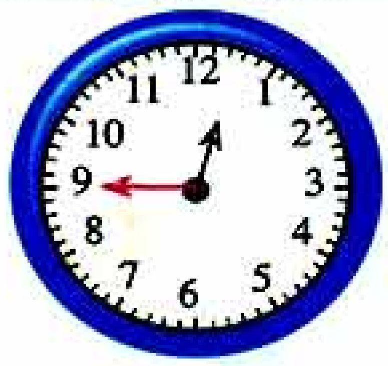
five past



Five to



10 to



quarter to



20 to

2 Draw the two hands and then complete:

a

....
8:35

b

It's ten to five
....

c

....
4:40

d

....
3:15

e

It's 20 to eleven
....

f

....
7:55

g

It's fifteen to four
....

h

....
9:40

3 Complete as the example:

Example:

Now

After two hours

a

Now

After 3 hours

b

Now

After one and half hour

c

Now

After one hour

d

Now

After $2\frac{1}{2}$ hours

e

Now

Before one hour

Second day , hour and minute:

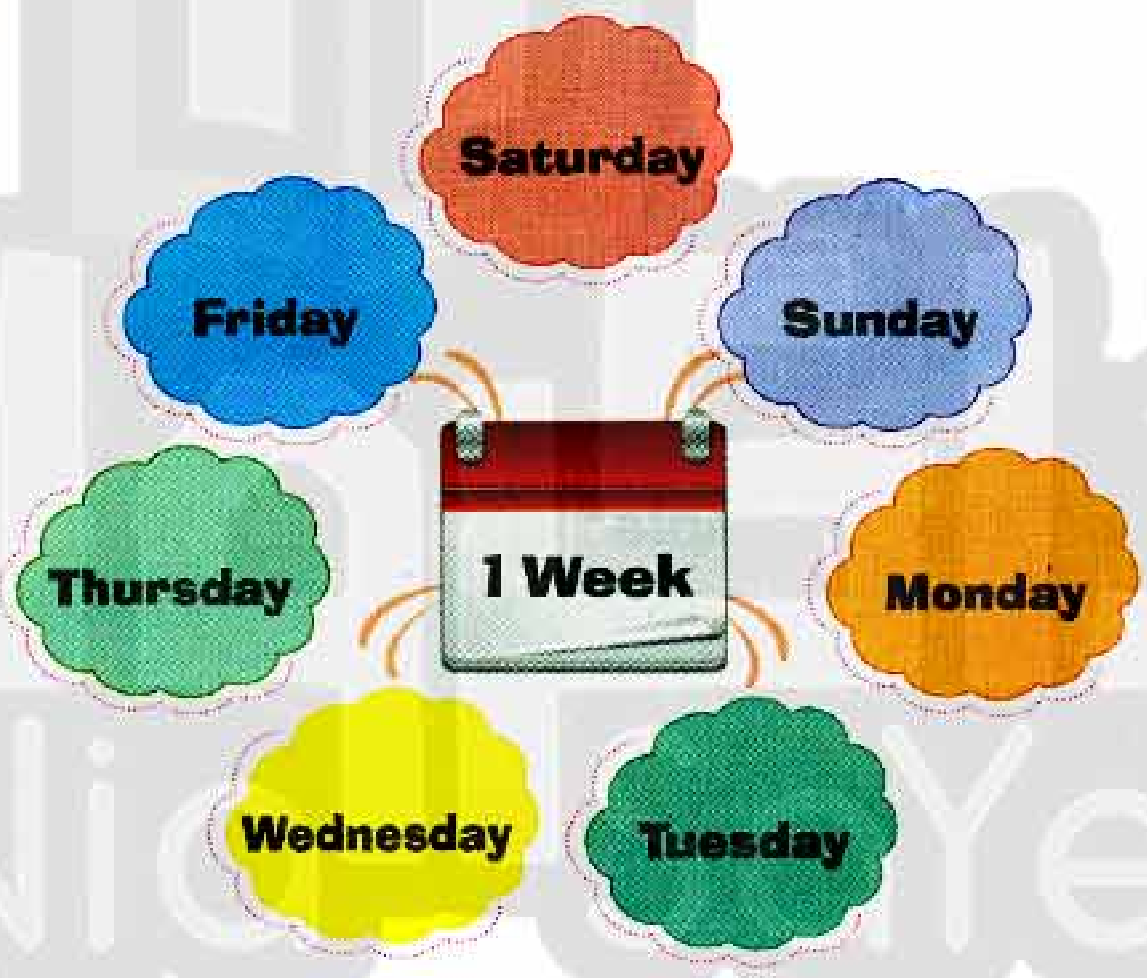
1 year = 12 months
= 365 days (in leap year, 366)

$\frac{1}{2}$ year = 6 months
$\frac{1}{4}$ year = 3 months

1 month = 30 days such as (April, June, September and November)
or = 31 days (for all the rest months except February)
and the number of days of February = 28 days or (29 days in leap year)

1 week = 7 days

Days of the week



Note that:

1 day = 24 hours
1 hour = 60 minutes
1 minute = 60 seconds

$\frac{1}{2}$ day = 12 hours
$\frac{1}{4}$ day = 6 hours

$\frac{1}{2}$ hour = 30 minutes
$\frac{1}{4}$ hour = 15 minutes

Examples and Exercises

1 Complete each of the following:

a The months of the year are: January , ... , ... , ... , ... , ... , ... , ... , ... , ... , ... , ...

b The days of the week are: Saturday , ... , ... , ... , ... , ... , ...

c The first month of the year is .... and the last one is ....

d The month just after May is .... and that just before October is ....

e The months that have 30 days are: April, ... , ... , ...

f The months that have 31 days are: January, ... , ... , ... , ... , ... , ...

2 Complete as the example:



Example: 2 weeks = 14 days , 3 years = 36 months

a 4 weeks = ... days.

b 2 years = ... months.

c 5 years = ... months.

d 7 weeks = ... days.

e A year and 3 months = ... months.

f 4 years and a half = ... months.

g 5 weeks and 2 days = ... days.

Exercise 4 Measuring time

1 Write the time in each of the following as the example:

Example:



It's ten past nine
9:10

a

....
...... : ......

b

....
...... : ......

c

....
...... : ......

d

....
...... : ......

e

....
...... : ......

f

....
...... : ......

g

....
...... : ......

h

....
...... : ......

i

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j

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...... : ......

k

....
...... : ......

l

....
...... : ......

m

....
...... : ......

n

....
...... : ......

o

....
...... : ......

2 Complete each of the following as the example:

Example: **One year = 12 months.**

a Two weeks = ... days.
b $\frac{3}{4}$ hour = ... minutes.
c The first month of the year is ....
d 60 months = ... years.
e Two years and a quarter = ... months.
f 3 weeks and 4 days = ... days.
g 2 days = ... hours.
h The month just after March is ....
i 12 hours = ... a day.
j Two days and a half = ... hours.
k The number of months just before December = ...
l 2 days and a quarter = ... hours.
m One hour = ... minutes.
n Two hours and a half = ... minutes.
o $\frac{1}{4}$ hour = ... minutes.
p 3 hours and 10 minutes = ... minutes.
q 100 minutes = one hour and .... minutes.
r 50 hours = ... days and .... hours.
s 2 hours and 15 minutes = ... minutes.
t 125 minutes = ... hours and .... minutes.
u $1\frac{3}{4}$ minutes = ... seconds.
v 10 hours = ... minutes.
w 130 seconds = ... minutes and .... seconds.
x 360 seconds = ... minutes.

3 Choose the correct answer as the example:

Example: A year = **365** days. (36 or 365 or 306)

a $\frac{1}{2}$ a day = ... hours. (24 or 20 or 12)

b One of the time units is .... (gram or metre or hour)

c $\frac{1}{3}$ year = ... months. (12 or 4 or 3)

d 4 weeks = ... days. (28 or 20 or 24)

e One day and 6 hours = ... hours. (24 or 30 or 36)

f 25 months = 2 years and .... months. (1 or 2 or 3)

g The day just before Friday is .... (Saturday or Sunday or Thursday)

h 75 minutes = ... hours. ($1\frac{1}{2}$ or $1\frac{1}{4}$ or $1\frac{3}{4}$)

4 Put the suitable mark (✓) or (✗) as the example:

Example: 21 days = 3 weeks. (✓)

a 1 day and 5 hours = 17 hours. ( )

b 1 hour and 20 min = 90 min. ( )

c 2 months and 5 days = 65 days. ( )

d The month just after August is September. ( )

e $2\frac{1}{4}$ hours = 145 minutes. ( )

f $\frac{1}{2}$ a day and 8 hours = 20 hours. ( )

g 3 minutes = 720 seconds. ( )

h 6 years = 72 months. ( )

i The last month of the year is January. ( )

j $\frac{1}{2}$ day and 5 hours = 17 hours. ( )

k 2 days and 2 hours = 50 hours. ( )

5 Join the equal times:

a	1 day and 6 hours	1	half a day
b	66 minutes	2	half an hour
c	12 hours	3	one year
d	2 weeks and 5 days	4	30 hours
e	365 days	5	19 days
f	30 minutes	6	an hour and 6 minutes

6 Put the suitable sign (< , = or >) as the example:



2 weeks and 2 days = 16 days

- **a** 1 year .... 13 months.
- **b** $\frac{1}{4}$ hour and 12 minutes .... 30 minutes.
- **c** 36 months .... 3 years.
- **d** 90 minutes .... $1\frac{1}{4}$ hours.
- **e** 2 days and 10 hours .... 60 hours.
- **f** $\frac{2}{3}$ hour .... 40 minutes.
- **g** The number of days in February .... 30 days.
- **h** 36 hours .... 3 days.
- **i** $2\frac{1}{2}$ minutes .... 150 seconds.

7 Arrange the following times ascendingly as the example:

Example:

36 hours, 2 days, 2 weeks and 72 hours

The order is 2 days, 36 hours, 72 hours and 2 weeks

a 21 days , 6 weeks , 24 hours and 3 months.

The order is .... , ... , ... and ....

b $\frac{1}{2}$ a year , 9 months , 12 weeks and 7 months.

The order is .... , ... , ... and ....

c 240 minutes , $\frac{1}{2}$ a day , 3 hours and 75 minutes.

The order is .... , ... , ... and ....

8 Complete as the example:

Example:

60 months = 5 years , 14 days = 2 weeks

a 28 days = ... weeks.

b 42 days = ... weeks.

c 24 months = ... years.

d 6 months = ... years.

e 26 months = ... years and .... months.

f 30 months = ... years.

g 15 days and 6 days = ... weeks.

9 Complete as the example:

Example: **2 days = 48 hours , 3 hours = 180 minutes**

a 3 days = ... hours.

b A day and 5 hours = ... hours.

c 2 hours = ... minutes.

d An hour and a half = ... minutes.

e 3 hours and a quarter = ... minutes.

f 2 days and a quarter = ... hours.

g 3 days and a half = ... hours.

10 Complete as the example:

Example:
96 hours = 24 + 24 + 24 + 24 = 4 days,
240 minutes = 60 + 60 + 60 + 60 = 4 hours.

a 72 hours = ... days.

b 32 hours = ... day and .... hours.

c 12 hours = ... day.

d 6 hours = ... day.

e 120 minutes = ... hours.

f 125 minutes = ... hours and .... minutes.

g 90 minutes = ... hour.

11 Choose the correct answer as the example:



Example: 2 years and a month = **25** months. (24 or 25 or 26)

a One year and two months = ... months. (12 or 14 or 24)

b Half a day and 7 hours = ... hours. (19 or 20 or 24)

c $\frac{1}{4}$ year = ... months. (12 or 6 or 3)

d 100 minutes = one hour and .... minutes. (20 or 40 or 50)

12 Join the equal times as the example:

Example: 1 day and 6 hours → 30 hours

1 day and 6 hours	half a day
a 12 hours	20 minutes
b third an hour	an hour and a quarter
c 75 minutes	30 hours



13 Arrange the following periods of time ascendingly:

a 30 hours , a day and 2 hours , 2 days and 44 hours

The order is .... , ... , ... and ....

b A week , 9 days , 50 days , 2 weeks

The order is .... , ... , ... and ....

c 100 days , 3 months , a year and 900 hours

The order is .... , ... , ... and ....

General Exercises from the School Book

1 Choose the correct answer from those between brackets:

a. The distance between Cairo and Alexandria = ... (210 cm or 210 m or 210 km)
b. The height of Cairo Tower = ... (189 cm or 189 m or 189 km)
c. The distance between Cairo and Gidda is measured in .... (cm or m or km)
d. The height of an edifice is measured in .... (cm or m or km)
e. The length of the swimming pool is measured in .... (cm or m or km)
f. The child's weight of 6 years (age) is .... (gm or kg or km)
g. The weight of the ring = ... (14 gm or 4 kg or 14 km)
h. The weight of an orange = ... (200 gm or 500 gm or 750 gm)
i. The number of the year's days = ... days. (360 or 365 or 375)
j. The temperature of the normal person = ... (35 or 37 or 42)
k. The day = ... hours. (7 or 60 or 24)
l. 30 hours = One day and .... hours. (6 or 5 or 4)
m. .... is of length unit. (gram or kilogram or metre)
n. The unit of measuring weights is .... (hour or kg or km)
o. The suitable unit for measuring the distance between two countries is .... (m or kg or km)
p. One year and two months = ... months. (12 or 14 or 24)
q. Two hours and a quarter = ... minutes. (115 or 135 or 215)
r. The class period time is measured in .... (thermometer or day or minutes)

2 Complete:

a 75 metres = 75 × .... = ... cm.

b 25 km = 25 × .... = ... metres.

c 127 metres = 127 × .... = ... cm.

d 17 kilometres = 3 × .... = ... m.

e 3 kilograms = 3 × .... = ... gm.

f 57 kilograms = 57 × .... = ... gm.

g 3450 grams = ... kg + ... gm.

h 5 kilograms and 125 grams = ... + ... = ... gm.

i 9 kilograms and quarter of kg = ... + ... = ... gm.

j 6 kilograms and quarter of kg = ... + ... = ... gm.

k 8 kilograms and 375 grams = ... + ... = ... gm.

l One hour and 25 minutes = ... + ... = ... min.

m One hour and .... minutes = 80 minutes.

n 135 minutes = ... hours + ... minutes.

3 Put the suitable sign (< , = or >):

a 250 gm ☐ $\frac{1}{4}$ kg

b 4 kg and 50 gm ☐ 450 gm

c One hour and 25 minutes ☐ 145 minutes

d 36 hour ☐ two days

e 3 days and 5 hours ☐ 77 hours

f One and half a day ☐ 37 hours

g One year and 3 months ☐ 14 months

h 23 hours ☐ One day

4 Arrange the following units of measurement, ascendingly and descendingly:

a 80 hours, Two days 20 hours, One day and half.

The ascending order is .... , ... , ... , ...

The descending order is .... , ... , ... , ...

b Two and half months, 80 days, 48 days.

The ascending order is .... , ... , ... , ...

The descending order is .... , ... , ... , ...

c 3 metres and a quarter of metre, 315 cm, 3 km.

The ascending order is .... , ... , ... , ...

The descending order is .... , ... , ... , ...

Test on Unit (4)

1 Choose the correct answer:

a Two years and 2 months = ... months. (24 or 26 or 30 or 14)

b .... kg = 34000 grams. (34 or 40 or 340)

c 7 metres = ... cm. (70 or 700 or 7000)

d 3 hours and 20 minutes .... 200 minutes. (> or < or =)

e Human body temperature = ...°C. (35 or 37 or 45)

f One of the units of the weight is .... (kilometre or year or gram)

g The number of days of the year = ... days. (350 or 365 or 370)

h 3 hours = ... minutes. (720 or 360 or 180)

2 Arrange the following ascendingly:

a 2400 grams , 250 grams , 2 kilograms and 2500 grams.

b 35 minutes , 200 hours , 16 days and $\frac{1}{2}$ month.

c 3 kilometres , 4000 cm , 50 metres and $1\frac{1}{2}$ kilometres.

3 Answer the following:

a What is the unit used to measure temperature? ....

b What is the normal human body temperature? ....

c What is the unit used to measure the light weights? ....

d What is the suitable unit for measuring the distance between two countries? ....

e What is the suitable unit for measuring the weight of a gold ring?

f What is the suitable unit for calculating the time of a school period?

Unit Five



Statistics and Probability

Lessons of the unit

- **Lesson 1 :** Representing data.
- **Lesson 2:** Probability.

Lesson 1

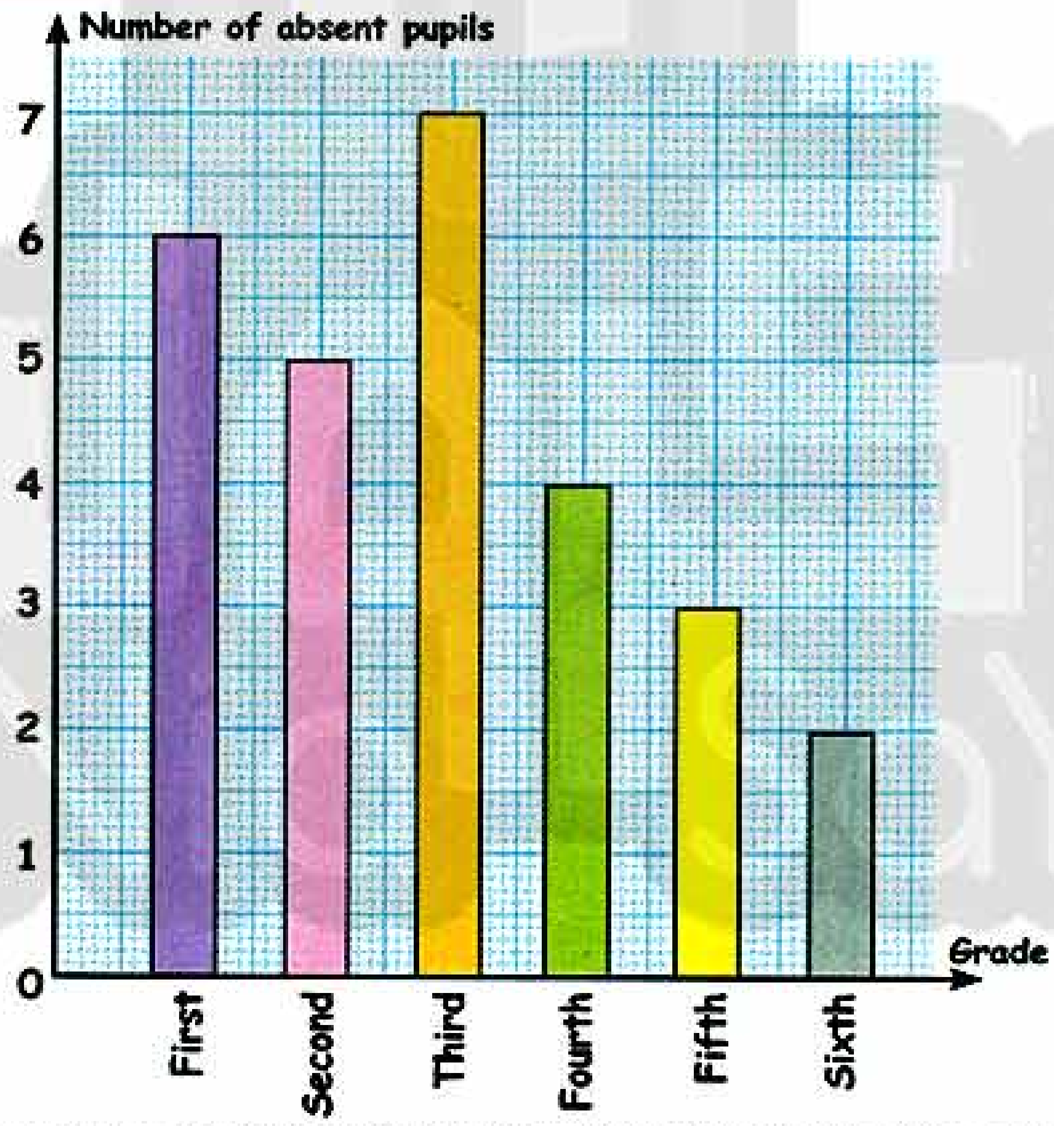
Representing data

First Representing data by a bar line graph:

Example: The following table shows the number of absent pupils in each grade.

Read and notice.

Grades	First	Second	Third	Fourth	Fifth	Sixth
Number of absent pupils	6	5	7	4	3	2



a Which grade has the greatest number of absent pupils? Third

b Which grade has the least number of absent pupils? Sixth

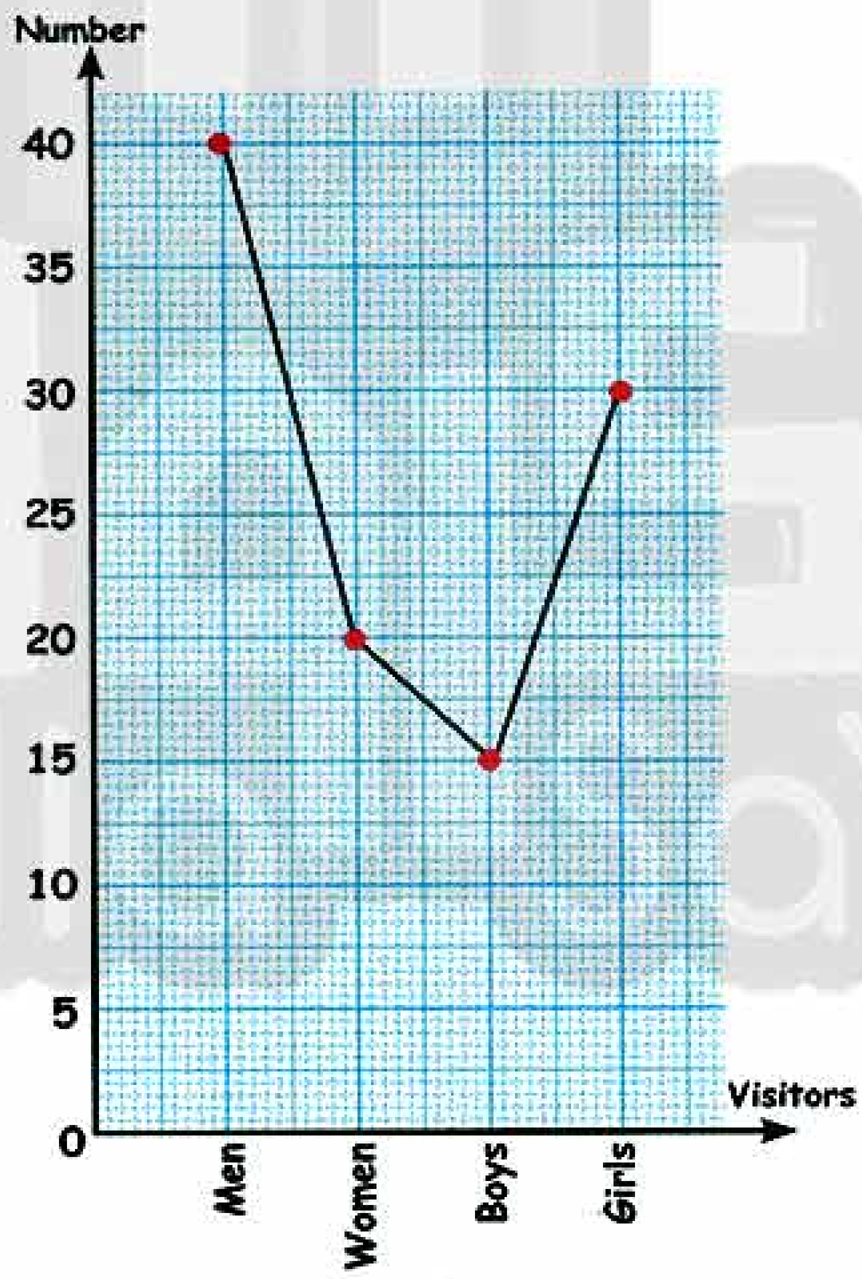
c What is the difference between the greatest and the smallest number of absent pupils? $7-2=5$ pupils

d What is the number of the absent pupils in the fourth grade? 4 pupils

Second Representing data by a broken line:

Example: **Khaled went to the Book Fair and wrote down the number of visitors of the Cultural Books Department during one hour in the following table:**

Men	Women	Boys	Girls
40	20	15	30



a The number of men who visited the Book Fair = 40 men.

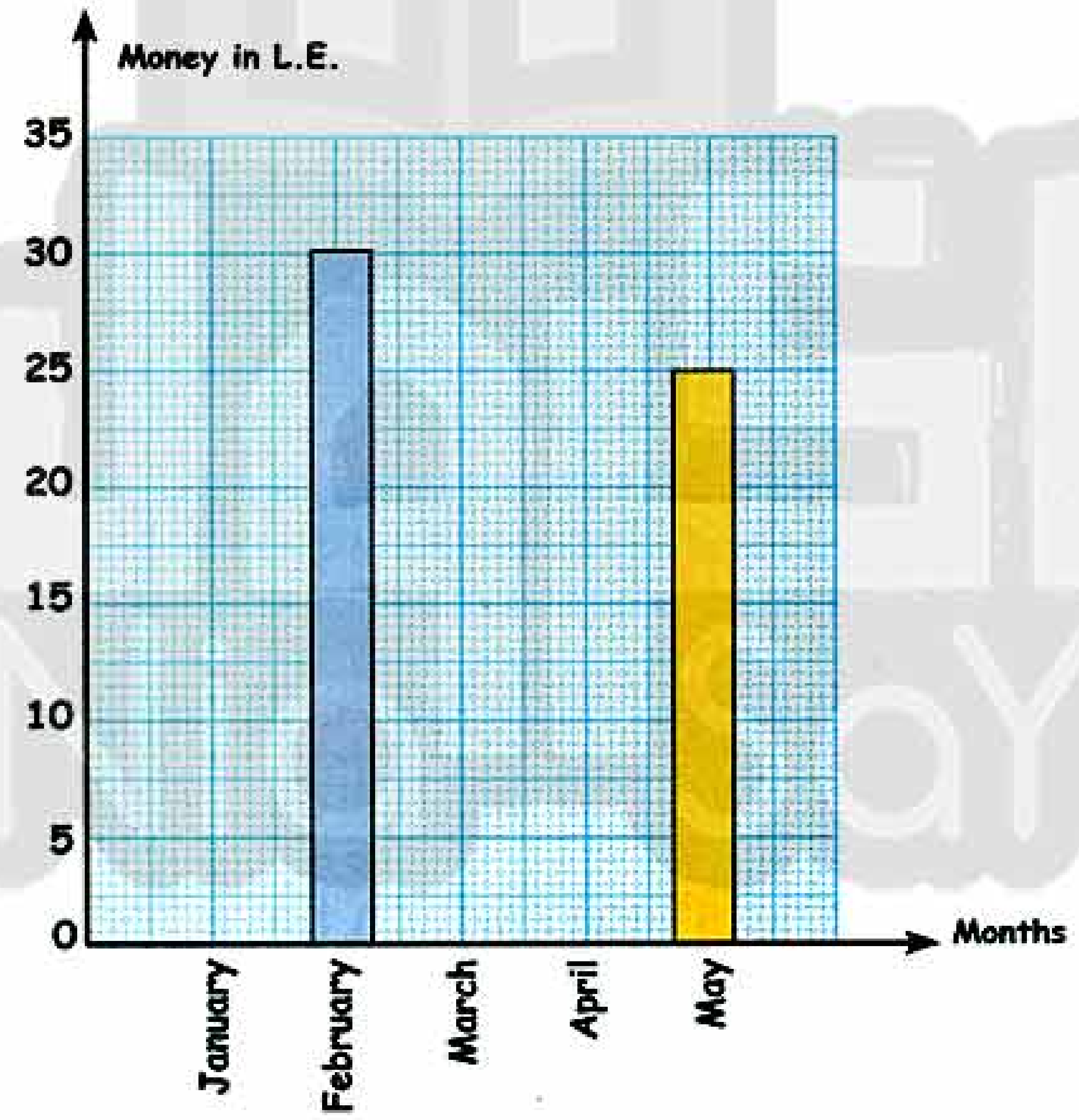
b The sum of the visitors at one hour = (40 + 20 + 15 + 30 = 105) visitors.

Exercise 1 Representing data

1 The following table and the bar line graph show the amounts of money that Mahmoud saved in 5 consecutive months.

Complete the table and the following graph, then answer the questions:

Months	January	February	March	April	May
Money in L.E.	25	....	20	15	....



a In which month did Mahmoud save the biggest amount of money?

In ....

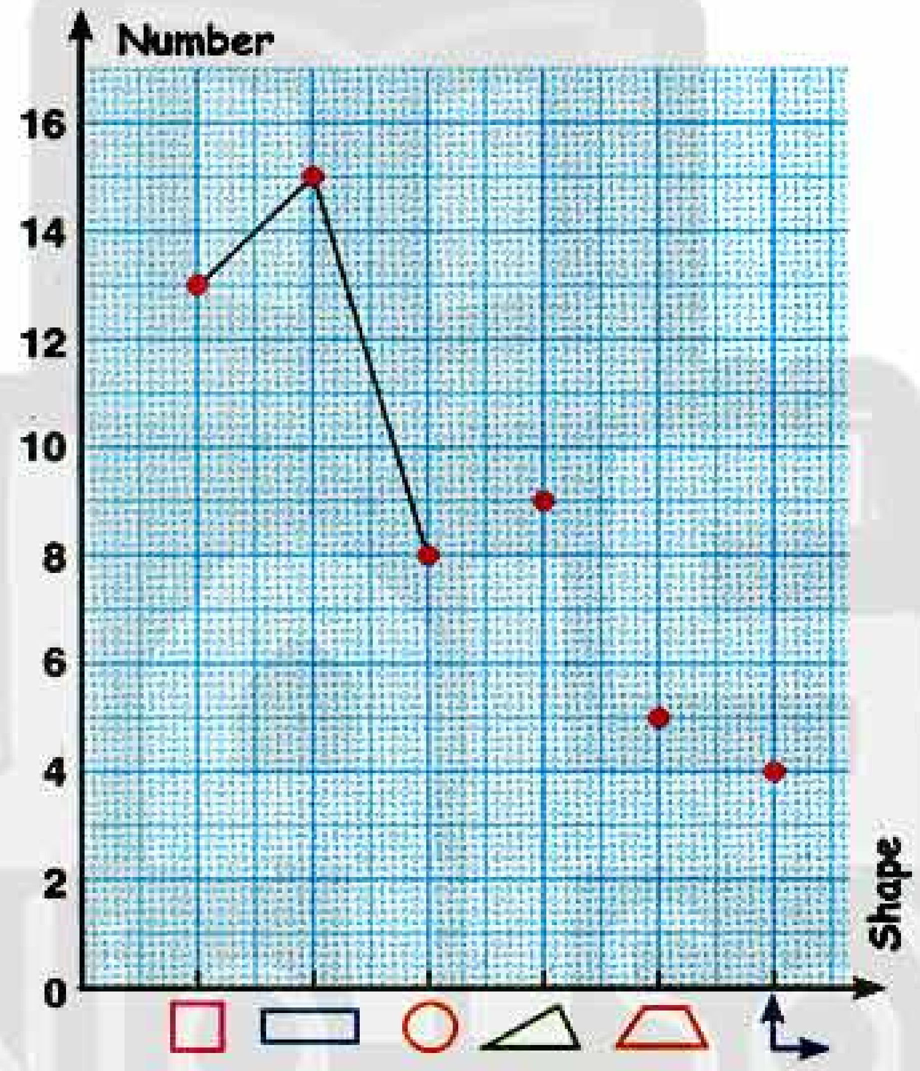
b In which months were Mahmoud's savings the same?

In .... and ....

2 Mostafa classified the shapes drawn in his mathematics book and found them as follows:

Shapes	□	▭	○	◺	⏢	↳
Number	13	15	8	9	5	4

Complete the opposite broken line graph, then answer:



a What is the number of the shapes which have the greatest number?

....

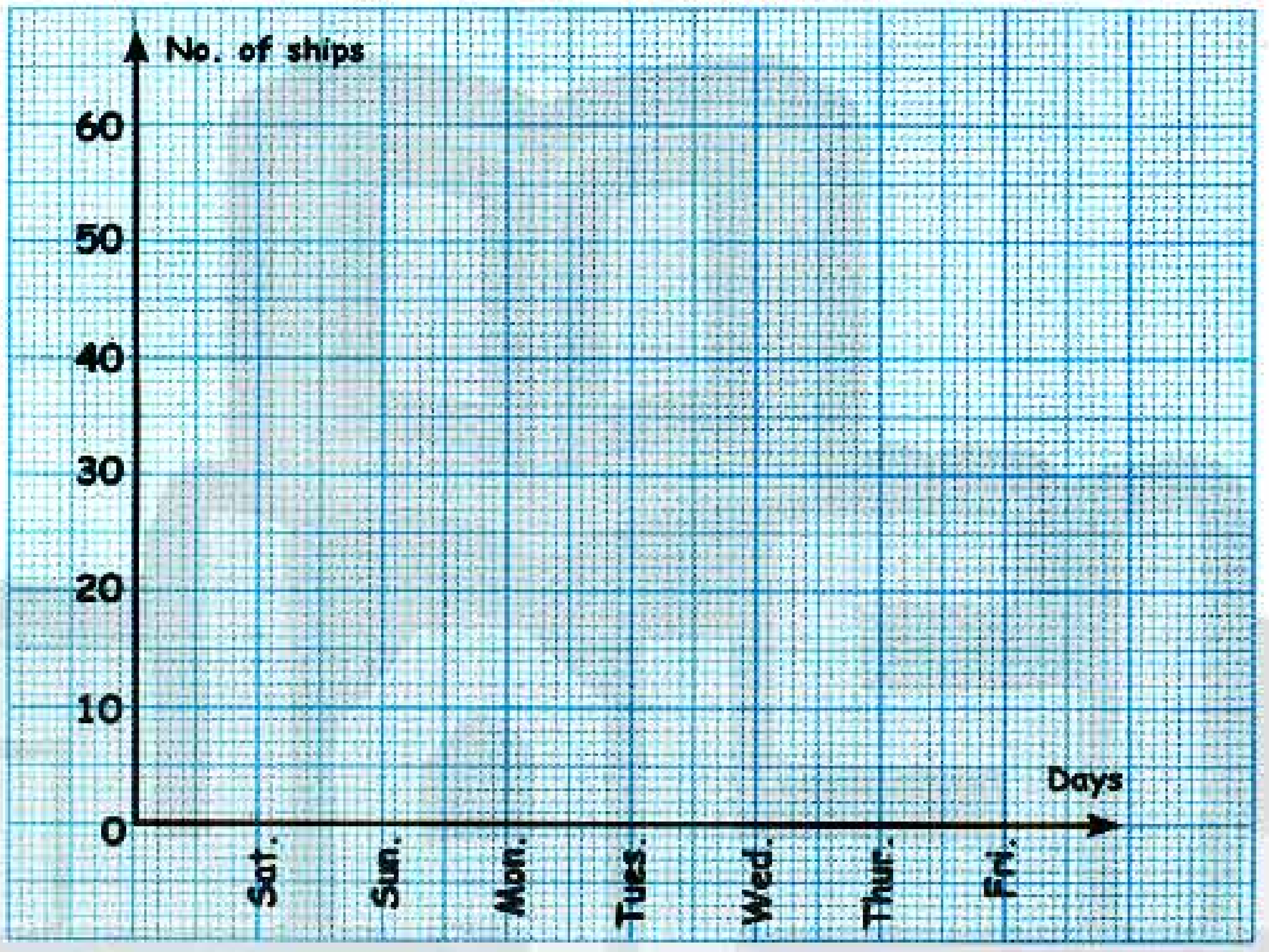
b What is the shape which has the smallest number?

The shape is ....

3 The following table shows the number of the ships that passed through Suez Canal within a week.

Days	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.
No. of ships	30	32	45	55	37	38	52

Using the table complete the following bar line graph:



From the graph answer the following questions.

a Which day had the greatest number of ships?

The greatest number of ships is on ....

b Which day had the smallest number of ships?

The smallest number of ships is on ....

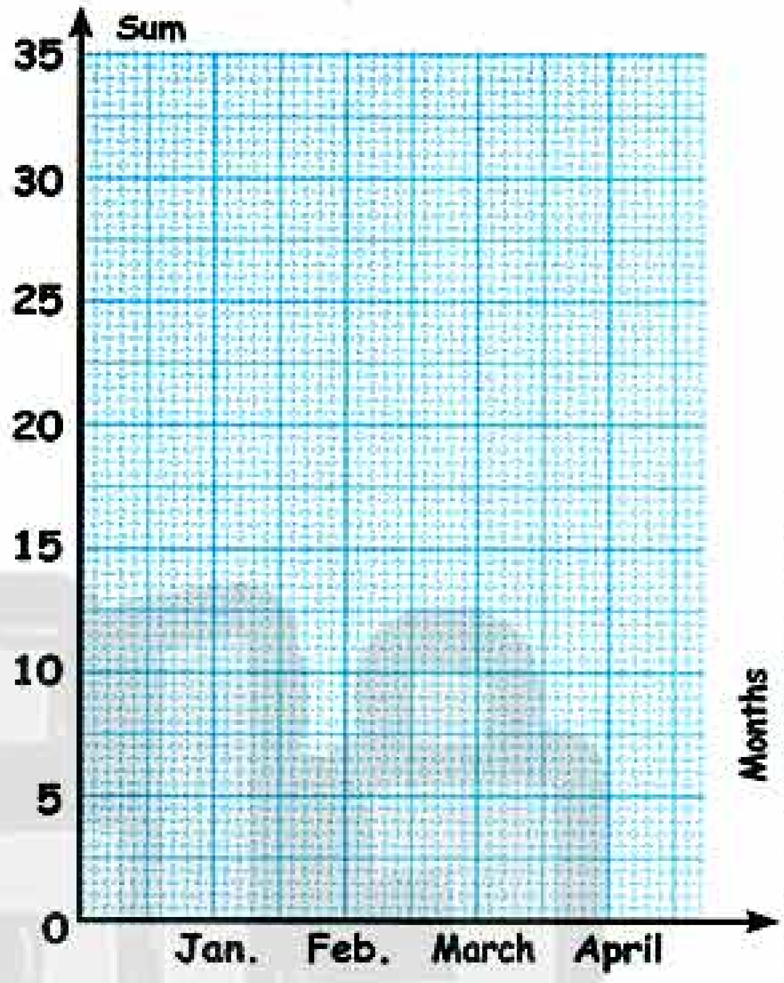
c What is the difference between the greatest and the smallest numbers?

The difference = ...

4 The following table shows what Ahmed saved during four months in pounds.

Months	Jan.	Feb.	March	April
Sum	25	15	30	20

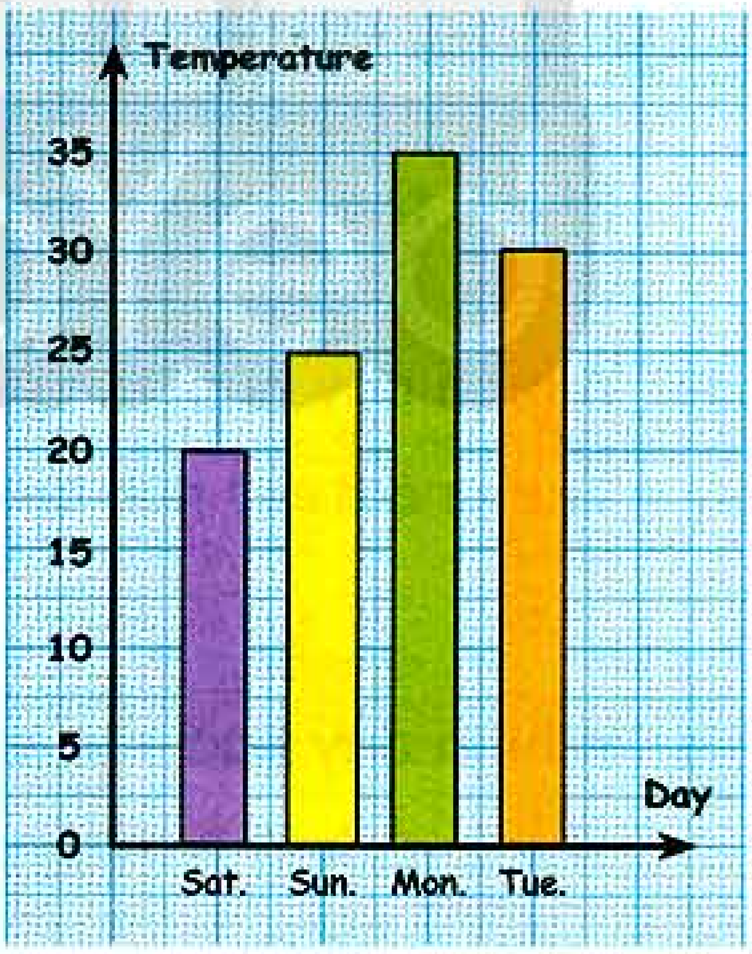
Represent the previous table using a broken line, then complete.



a The smallest sum which Ahmed saved is in ....

b The biggest sum which Ahmed saved is in ....

5 The following graph shows the temperature during four successive days; complete the table, then answer the questions:



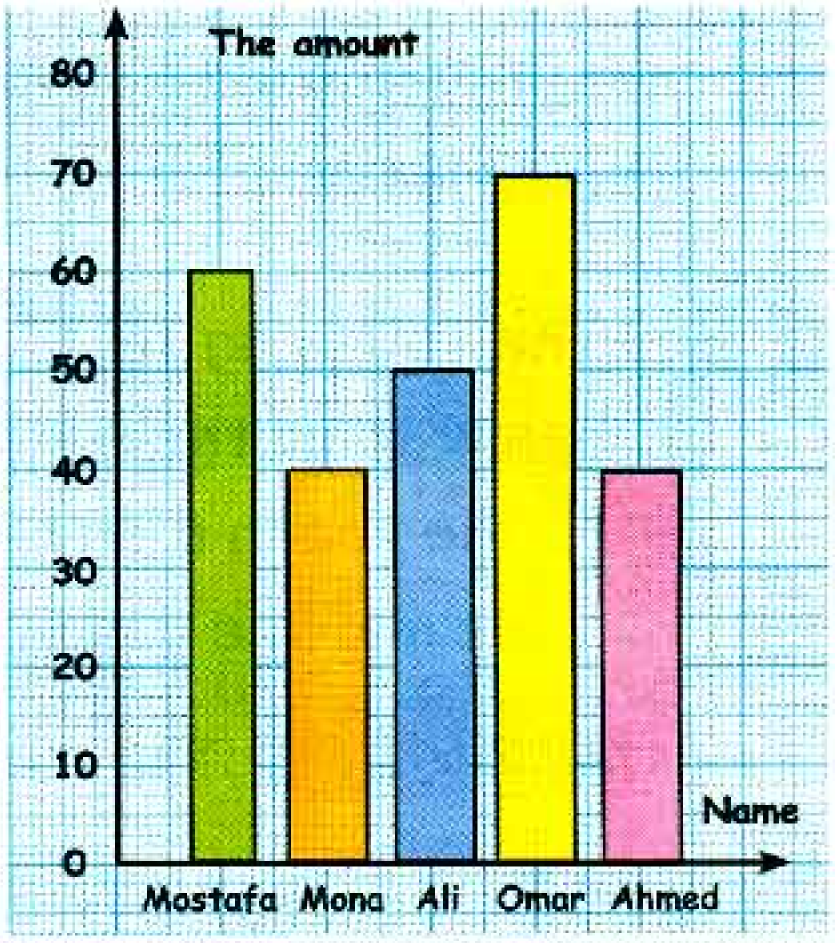
Days	Sat.	Sun.	Mon.	Tues.
Temperatures	....	....	....	....

a The highest temperature was ....°c on ....

b The lowest temperature was ....°c on ....

6 The following graph shows the donations of five pupils to one of the hospitals; complete the table, then answer the questions:

Names	Amounts
Mostafa	....
Mona	....
Ali	....
Omar	....
Ahmed	....



a The greatest donation = L.E. ....

b The smallest donation = L.E. ....

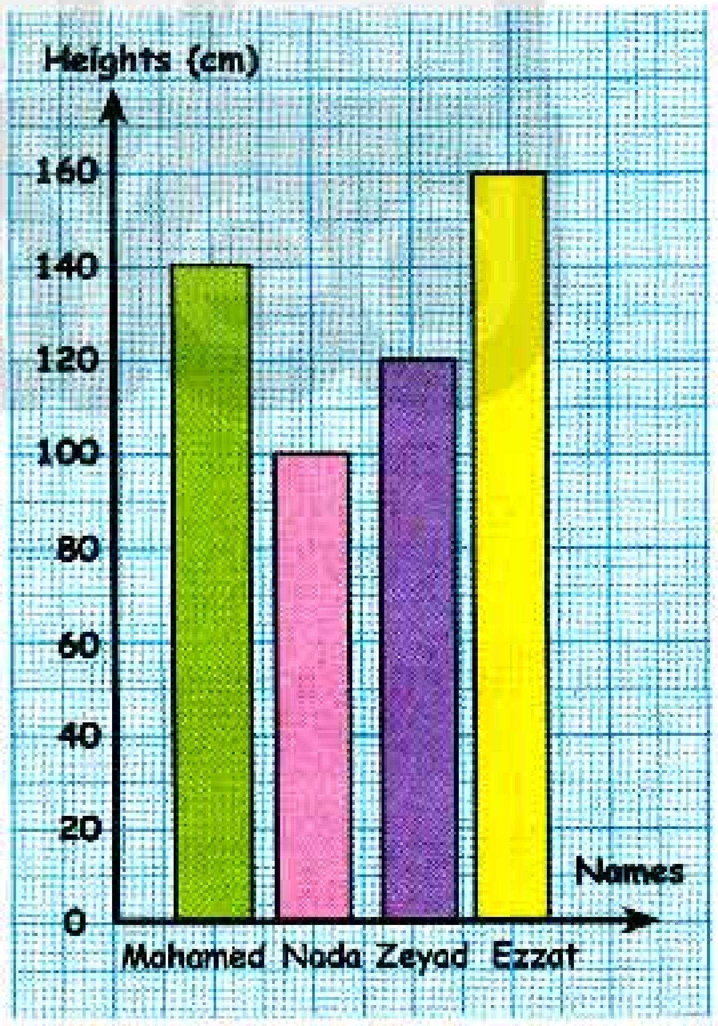
c .... and .... donated by equal amounts.

d The sum of the donations of the five pupils to the hospital = L.E. ....

e The difference between the greatest donation and the smallest one = L.E. ....

7 Use the following graph to complete the table and answer the questions:

Names	Mohamed	Nada	Zeyad	Ezzat
Heights	140	....	....	160



a How tall is Zeyad? ....

b How tall is Nada? ....

c Who is the tallest? ....

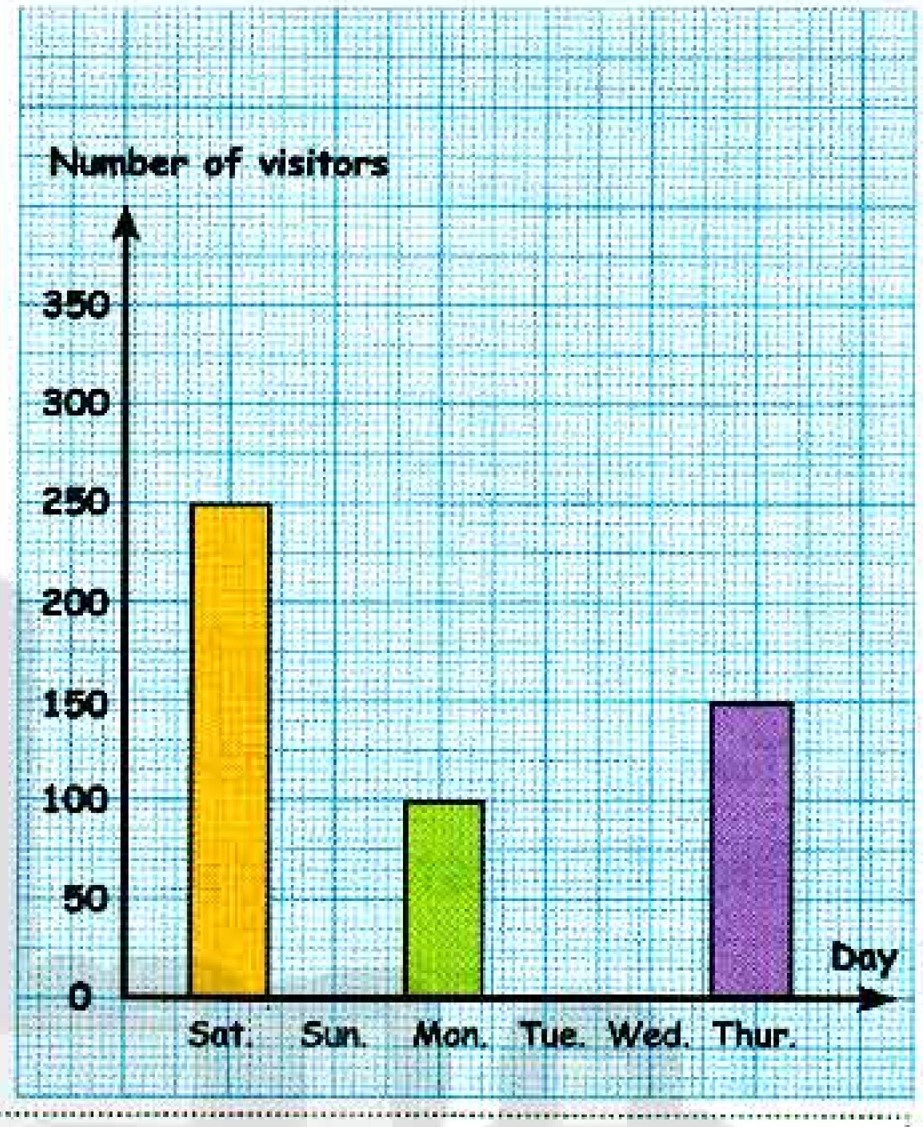
d Who is the shortest? ....

e Arrange the heights descendingly:

The order is: .... , ... , ... , ...

8 The following table and the graph below show the number of visitors to the zoo in 6 days, complete the table and the graph, then answer:

Days	The number of visitors
Sat.	....
Sun.	300
Mon.	....
Tue.	150
Wed.	200
Thur.	....



a The smallest number of visitors was .... on ....

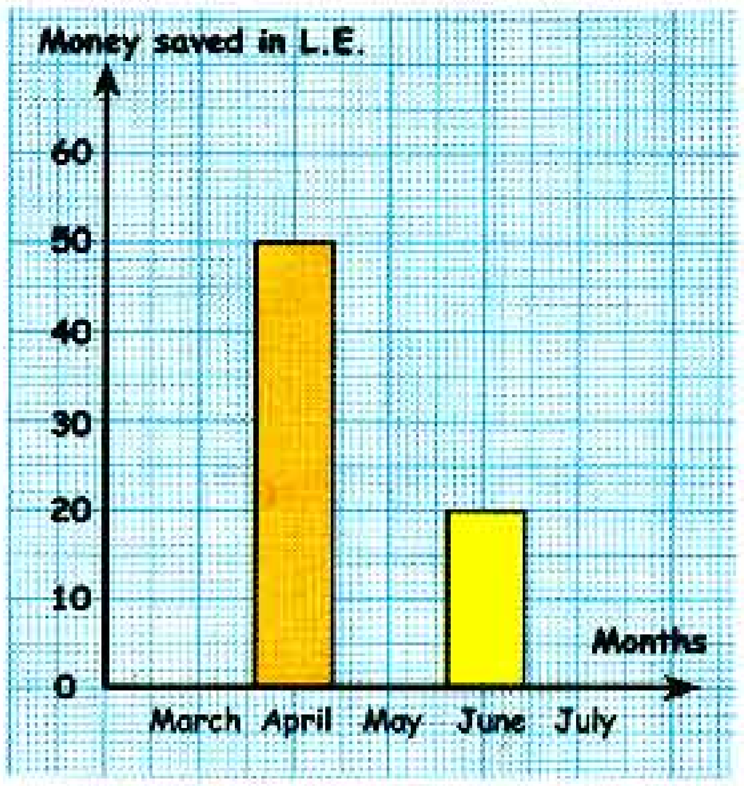
b The greatest number of visitors was .... on ....

c The difference between the greatest number and the smallest number of visitors = ...

d In which days was the number of visitors the same? ....

9 The following table and the graph below show how much money Omar has saved in 5 consecutive months, complete the table and the graph, then answer the questions.

Months	Money saved in L.E.
March	30
April	....
May	20
June	....
July	40



a The greatest amount of money that Omar saved was L.E. .... , he saved it in the month of ....

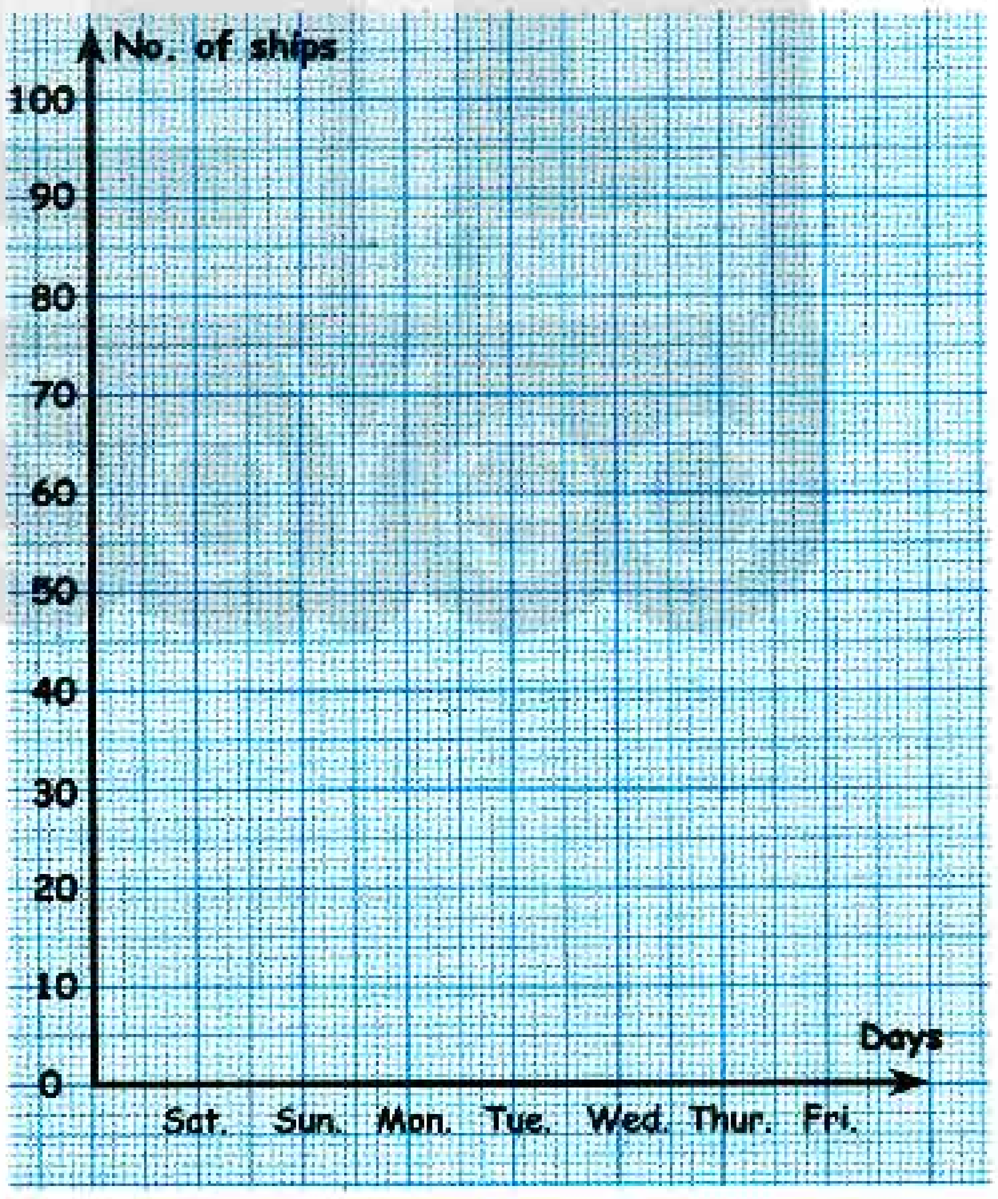
b The total amount that he saved in 5 months = L.E. ....

c The two months in which Omar saved equal amounts are .... and ....

10 The Suez Canal authority recorded the traffic in the canal in one week as follows:

Days	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.
No. of ships	60	70	90	110	80	70	100

a Represent these data by a bar line graph on the opposite figure.



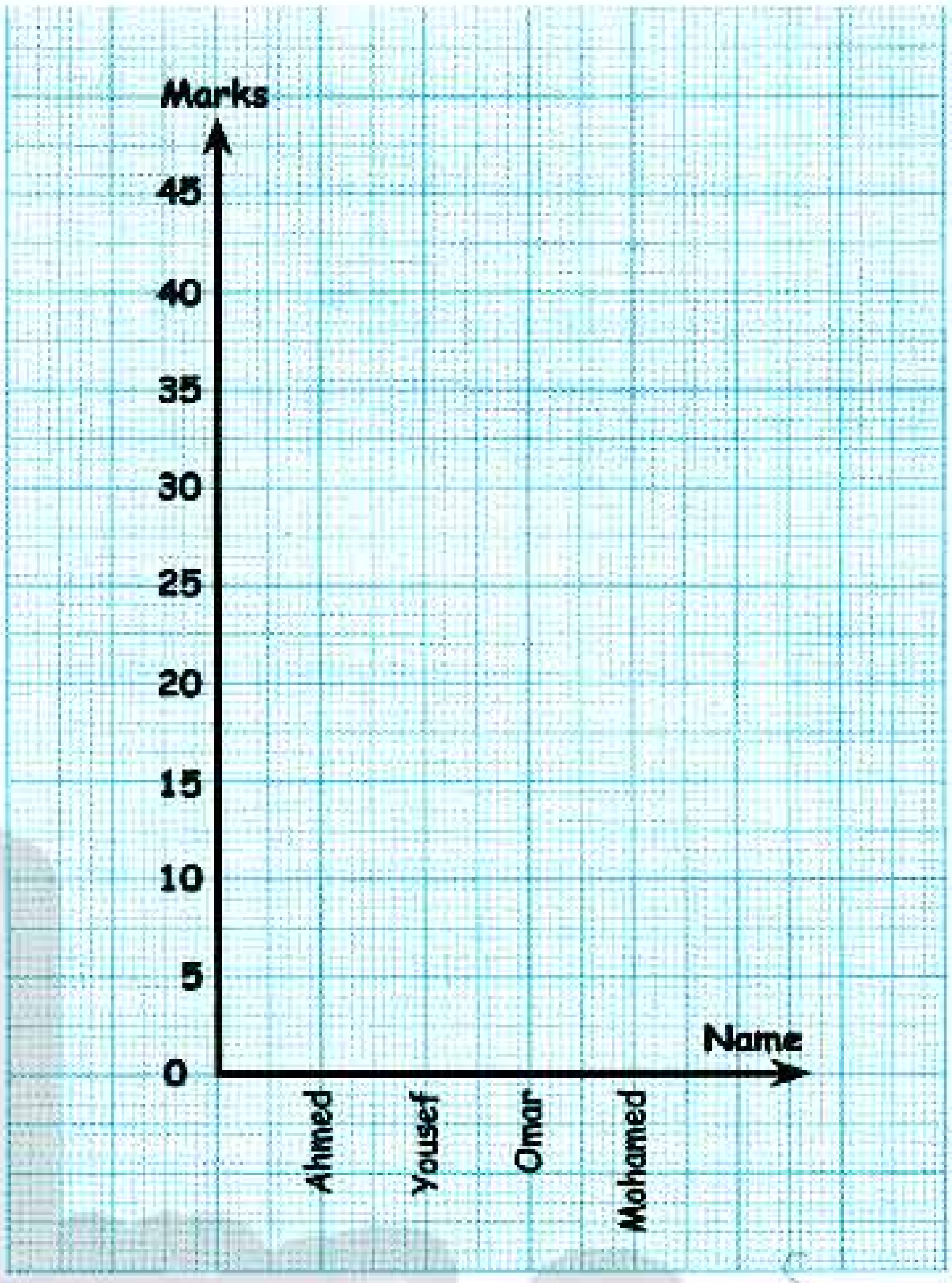
b The greatest number of ships is .... on ....

c The difference between the greatest number of ships and the smallest number of ships = ... ships.

d The two days that have equal number of ships are .... and ....

11 The following table shows the marks obtained by four pupils in a month:

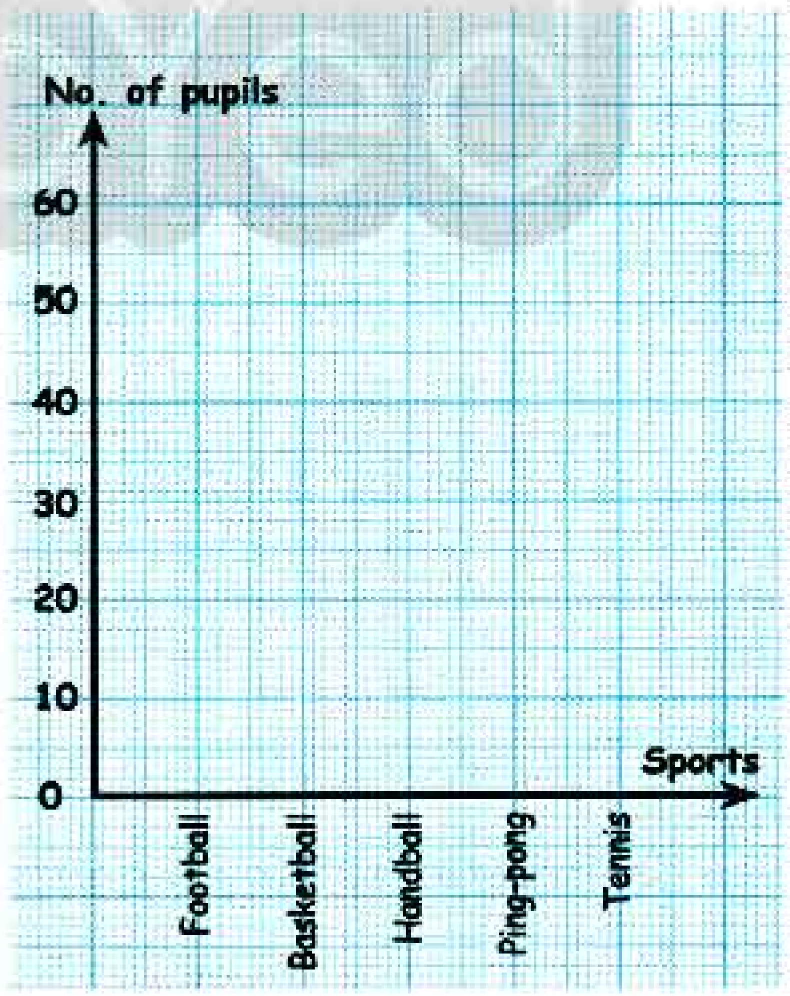
Names	Marks
Ahmed	45
Yousef	30
Omar	40
Mohamed	35



Represent these data by bar lines.

12 The following table shows the number of pupils participating in some sports:

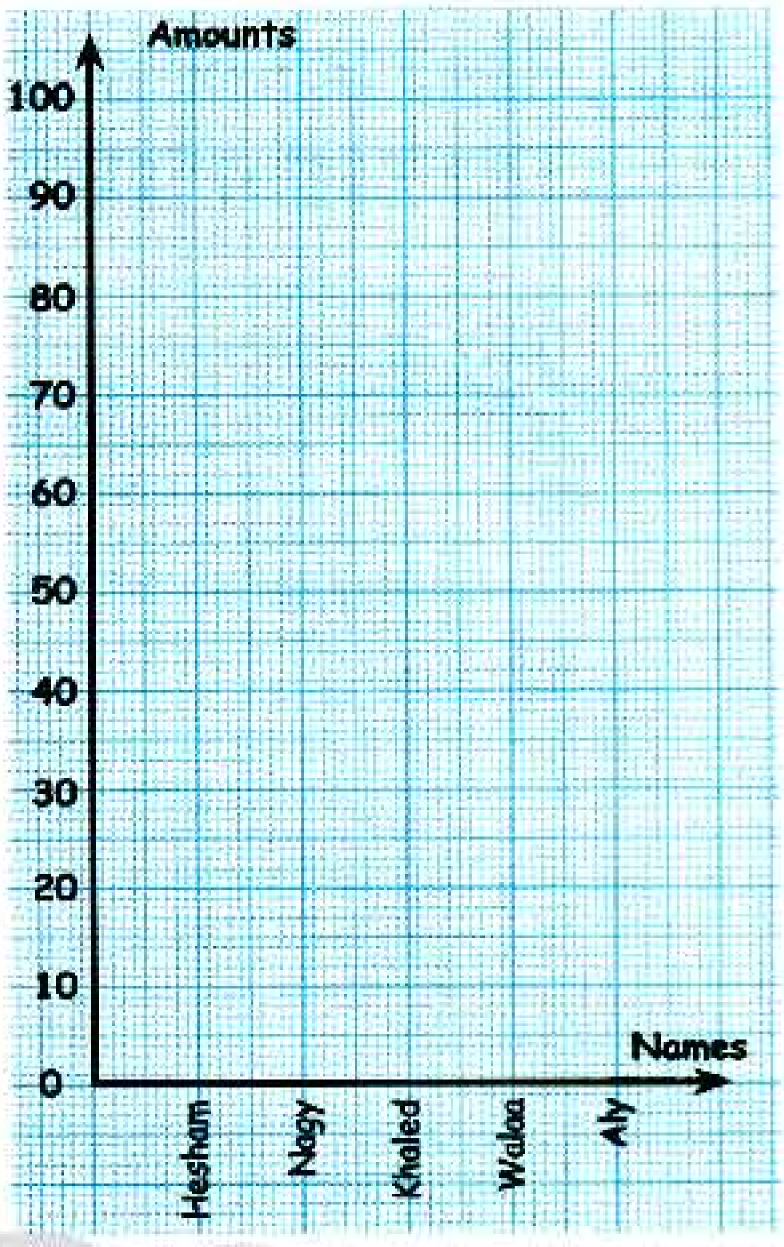
Sports	No. of pupils
Football	60
Basketball	40
Handball	30
Ping-pong	50
Tennis	20



Represent these data by bar lines.

13 The following table shows the donations of five persons to one of the hospitals in pounds:

Names	Amounts
Hesham	50
Nagy	70
Khaled	40
Walaa	60
Aly	80



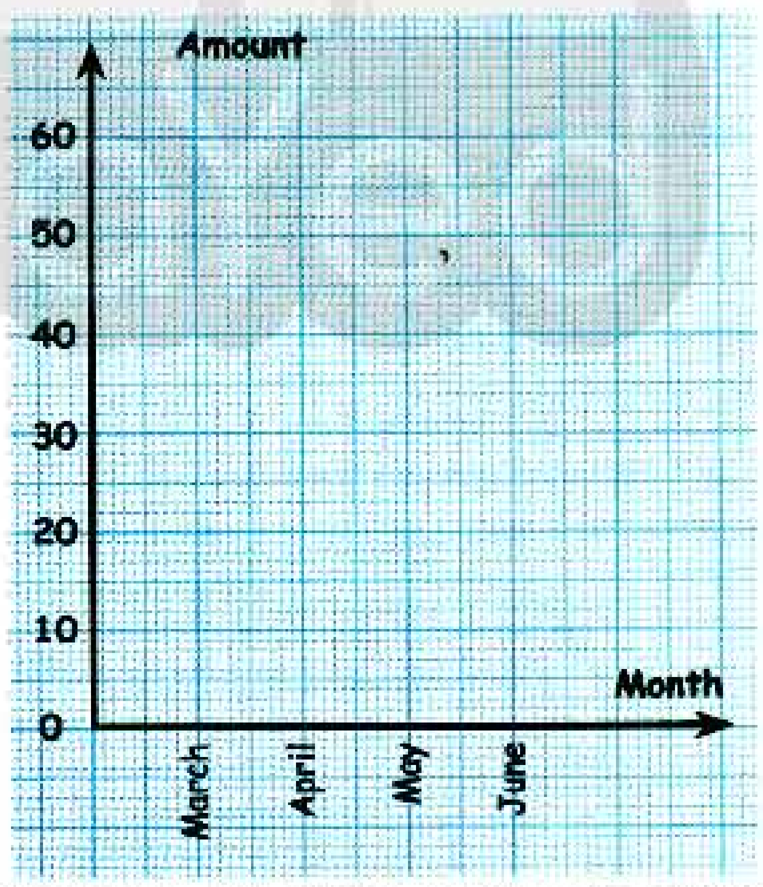
a Represent these data by a broken line graph.

b What is the difference between the greatest and the smallest donations in pounds?

The difference = ... − .... = L.E. ....

14 The following table shows the amounts that Kamal saved in 4 months in pounds:

Months	Amounts
March	40
April	30
May	50
June	20



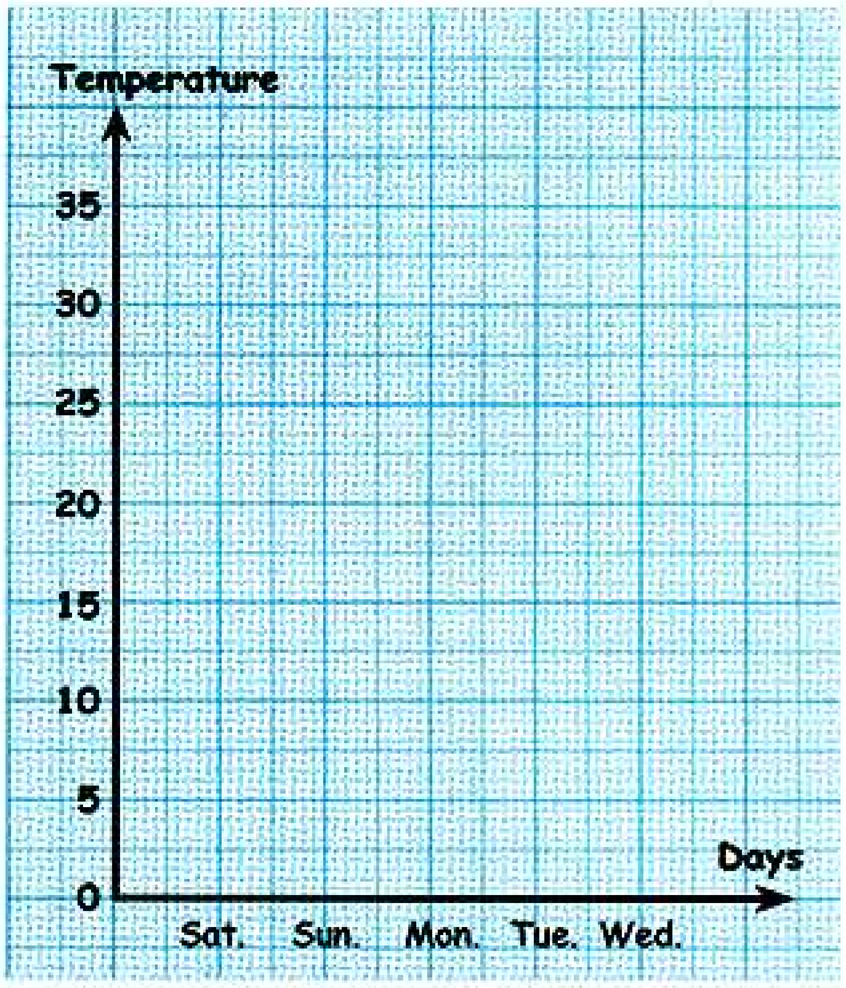
a Represent these data by a broken line graph.

b The smallest amount Kamal saved was .... in the month of ....

c The difference between the greatest and the smallest amount = L.E. ....

15 The following table shows the temperature of a city during 5 days:

Days	Temperatures
Sat.	30°C
Sun.	20°C
Mon.	25°C
Tue.	30°C
Wed.	35°C



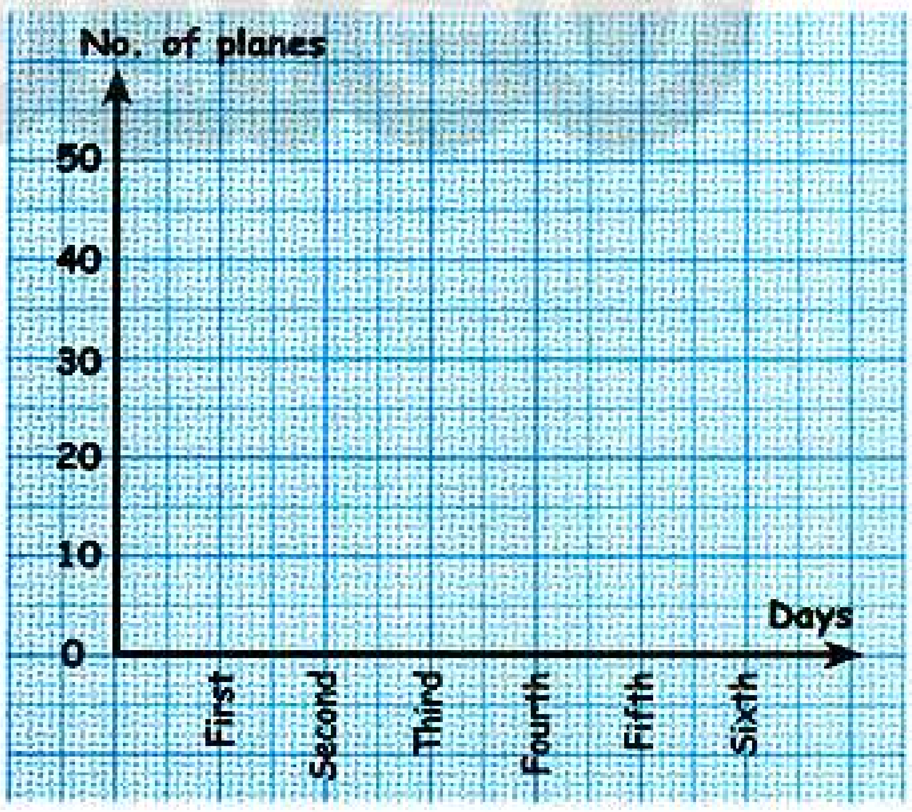
a Represent these data by a broken line graph.

b The greatest temperature was .... °C.

c The smallest temperature was .... °C.

16 The following table shows the approximate number of planes that landed or departed from Egypt in six consecutive days:

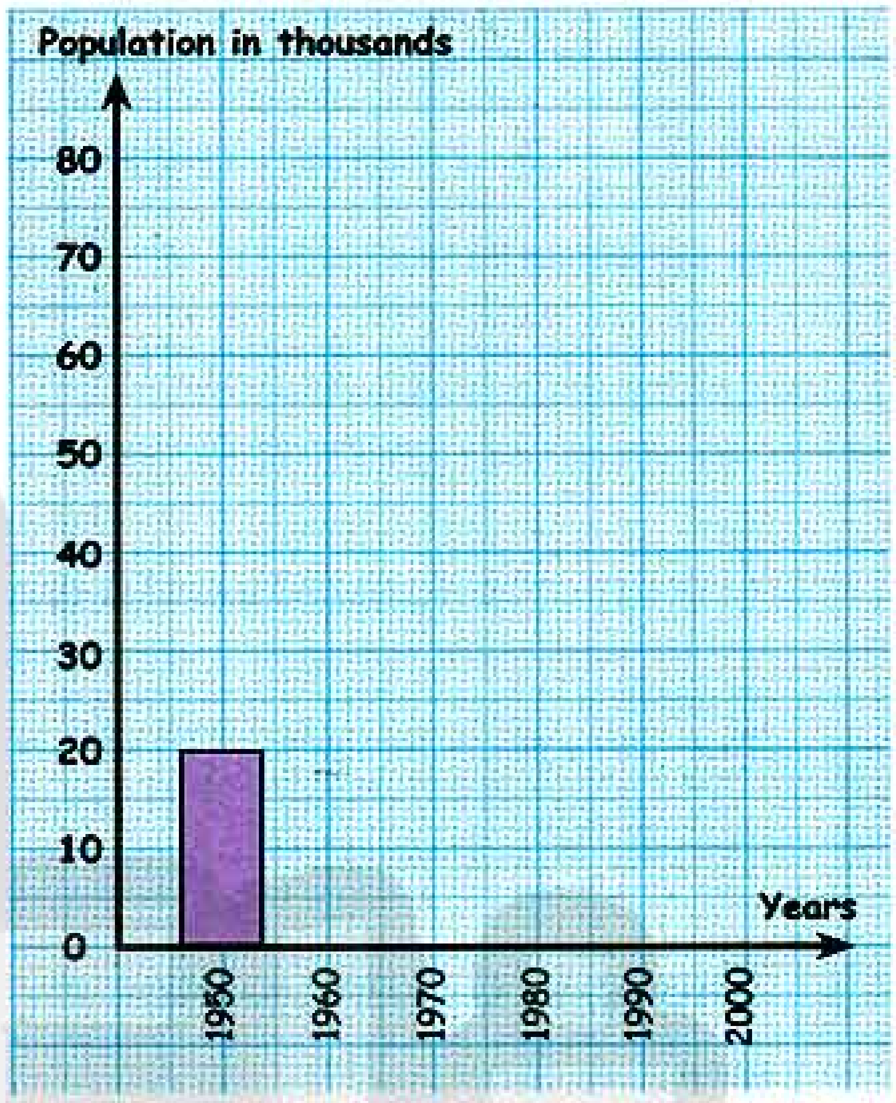
Days	No. of planes
First	25
Second	30
Third	35
Fourth	40
Fifth	35
Sixth	50



Represent these data by a broken line graph.

17 🕮 The following table shows the approximate number of population in one of the Egyptian villages in thousands in the given years. Complete the graph by using bar lines:

Years	Population in thousands
1950	20
1960	25
1970	40
1980	50
1990	55
2000	70



Lesson 2

Probability

Certain / possible / impossible

In our life:

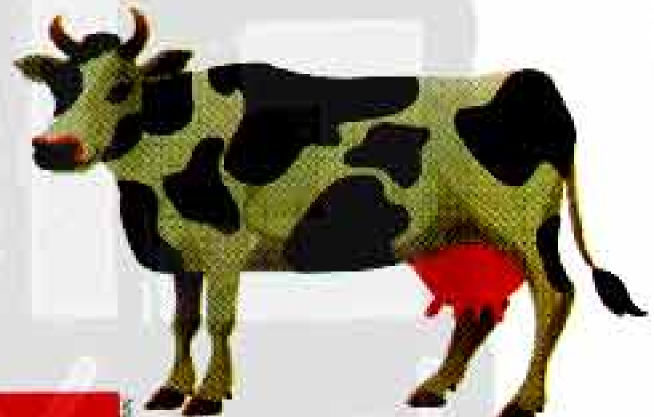


1. There are some events which are certain to happen as:
   the sun rises from the east (certain event).



2. There are some events which are possible to happen as:
   a pupil will get a high grade in mathematics
   (possible event).

3. There are some other events which are imposssible to happen as:
   a cow can fly (impossible event).



Examples and Exercises

1 Complete:

a. The sun rises from west is .... event.

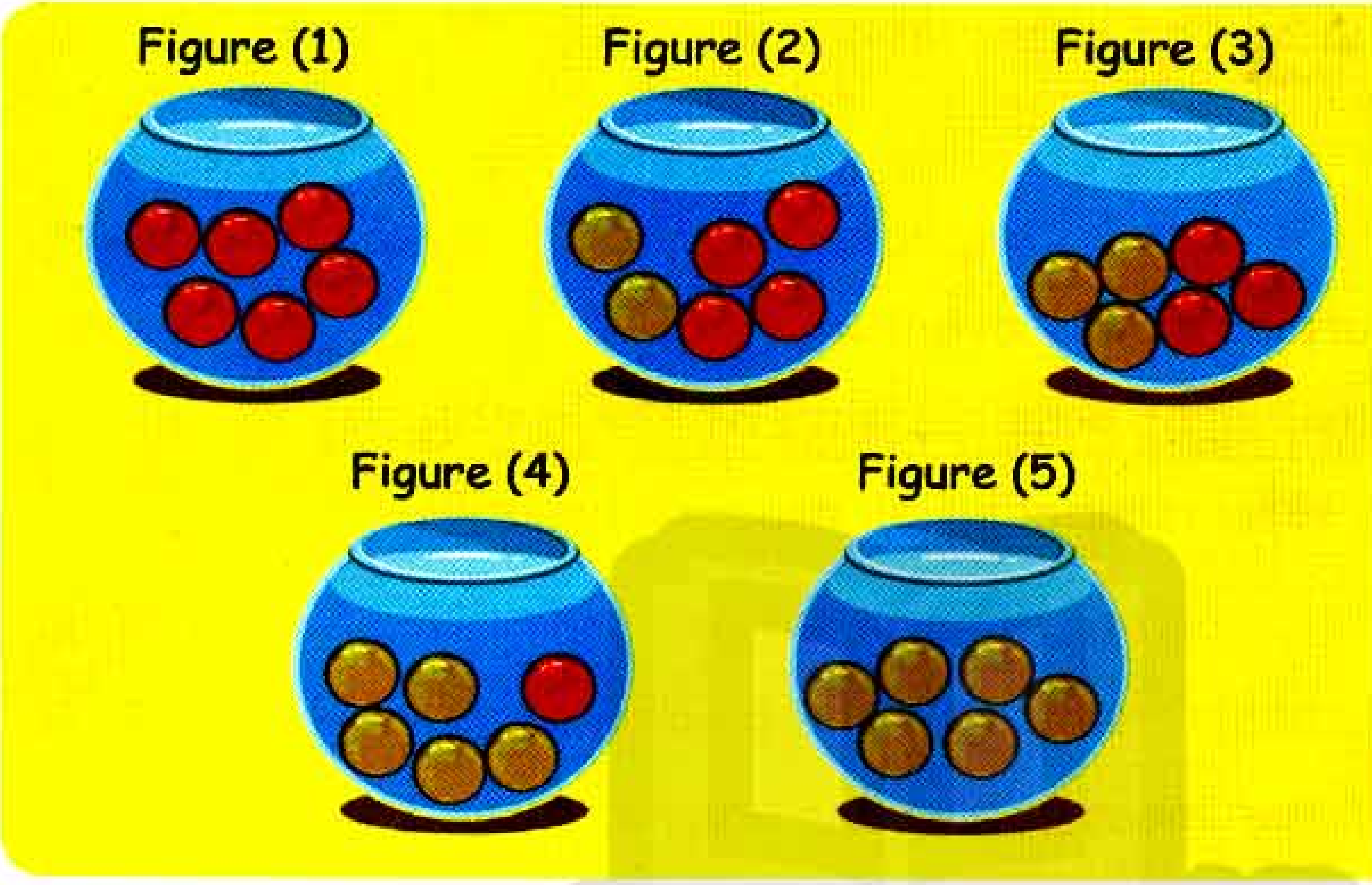
b. The student's age in primary 3 is 40 years ....

c. The bird fly is .... event.

d. I study 3 hours a day is .... event.

e. It will rain tomorrow is .... event.

2 Determining the degree of expectation:





If Mona closed her eyes and drew a ball from each container, then:

a In figure (1) the expectation that Mona will draw a red ball from the first container is "sure".

b In figure (2) the expectation that Mona will draw a red ball from the second container is "great".

c In figure (3) the expectation that Mona will draw a red ball from the third container is "moderate".

d In figure (4) the expectation that Mona will draw a red ball from the fourth container is "weak".

e In figure (5) the expectation that Mona will draw a red ball from the fifth container is "impossible".

Calculating Probability

To determine the value of the expectation, we calculate the probability of the event from the rule.

The Rule:

The probability of occurring of any event =

$$\frac{\text{The number of possible ways of the event}}{\text{The total number of all possible ways}}$$

Notes

1. The probability of the impossible event = zero
2. The probability of the certain event = 1
3. The probability of the possible event is between zero and 1 (*i.e.,* it is a fraction).

Examples and Exercises

When you throw a dice once, complete:



1. The probability of getting even number is ....
2. The probability of getting odd number is ....
3. The probability of getting a number more than 2 is ....

Exercise 2 Probability

1 Complete each of the following by writing "certain", "possible" or "impossible" as the example:

Example: It is **impossible** to find a man who is three metres tall.

a. It is .... that the sun rises in the east.
b. It is .... to go on a trip with your friends.
c. It is .... to get the full marks in your exam.
d. It is .... that the River Nile runs in Egypt.
e. The event that my hair will become green is ....
f. The event that the sun rises in the east is ....
g. It is .... to rain gold.
h. It is .... that I will get high grade in mathematics.
i. It is .... that the sun rises in the morning.
j. It is .... to go on a trip with your school.
k. It is .... to find two moons in the sky one night.
l. It is .... that the sun rises in the west.
m. It is .... that a cow is flying.

2 Using the figures below, complete by writing "great", "moderate", "weak", "impossible" or "certain" as the example:


First plate


Second plate


Third plate

Example: **The probability that the drawn apple from the second plate will be red is great .**

a. The probability that the drawn apple from the first plate will be green is ....
b. The probability that the drawn apple from the third plate will be yellow is ....
c. The probability that the drawn apple from the third plate will be green is ....
d. The probability that the drawn apple from the second plate will be yellow is ....

3 Choose the correct answer:

a. The fact that the sun rises in the morning is ....
(certain , possible or impossible)

b. The event that the sun rises in the west is ....
(certain , possible or impossible)

c. The event that the temperature decreases in winter is ....
(certain , possible or impossible)

d. The fact that the fish live in water is ....
(certain , possible or impossible)

e. The fact that a pupil goes to school is ....
(certain , possible or impossible)

f. The event that the day follows the night is ....
(certain , possible or impossible)

g. The event that the temperature increases in summer is ....
(certain , possible , impossible)

h. The expectation that Al Ahly will win the next match is ....
(certain , possible , impossible)

i. The probability that the sky will rain gold is ....
(certain , possible , impossible)

j. The probability that the elephant can fly is ....
(certain , possible , impossible)

4 Complete:

When we toss a coin once, we get a head **or** a tail:



a The probability of getting a head = $\frac{\cdots}{\cdots}$

b The probability of getting a tail = $\frac{\cdots}{\cdots}$

5 When you throw a dice once, complete each of the following:



Example:

The probability of getting the number 3 on the upper face = $\frac{1}{6}$.



a The probability of getting the number **4** on the upper face = ...

b The probability of getting an even number = ...

c The probability of getting an odd number = ...

d The probability of getting a number greater than **7** = ...

e The probability of getting a number smaller than **2** = ...

f The probability of getting a number smaller than or equal to **6** = ...

6

A basket contains 10 apples. Two of them are bad. If we draw an apple, **what is the probability of drawing a bad apple?**

....

....

....

Bad	Good	Sum
2	8	10

7

In a class of 40 pupils, 23 are boys and 17 are girls. If one of pupil is absent, **what is the probability that the absent pupil is a boy?**

....

....

....

Boys	Girls	Sum
23	17	40

8 What do you expect?



Imagine that you closed your eyes and stirred the balls in each container very well and drew one ball out of each. What do you expect the colour of the drawn ball to be in each case?

a The first container: Complete:

1. It is certain that the ball drawn from the first container will be .... in colour.
2. It is impossible that it will be .... in colour.

b The second container:

1. It is possible that the ball drawn from this container will be ...... in colour.
2. It is also possible to be .... in colour.
3. It is impossible to be .... in colour.

c The third container:

1. It is certain that the ball drawn from the third container will be .... in colour.
2. It is impossible to be .... in colour.

d For each of the following write "great", "moderate", "weak" or "impossible":

1. It is possible for the ball drawn from the first container to be blue: ....
2. It is possible for the ball drawn from the second container to be yellow: ....
3. It is possible for the ball drawn from the third container to be blue: ....

9 There are 3 containers. If you close your eyes and draw one ball from each container, **complete by writing the number of container as the example:**



(1) (2) (3)

Example: **The greatest probability that the drawn ball will be yellow is in the container (3).**

a The greatest probability that the drawn ball will be green is in .... container.

b The least probability that the drawn ball will be red is in .... container.

c The least probability that the drawn ball will be green is in .... container.

10 Use the previous figures to complete by writing "great", "moderate", "weak" or "impossible" as the example:

Example: **The probability that the drawn ball from the first container will be red is weak.**

a The probability that the drawn ball from the first container will be yellow is ....

b The probability that the drawn ball from the first container will be blue is ....

c The probability that the drawn ball from the first container will be green is ....

d The probability that the drawn ball from the second container will be red is ....

e The probability that the drawn ball from the second container will be black is ....

f The probability that the drawn ball from the second container will be yellow is ....

g The probability that the drawn ball from the third container will be red is ....

h The probability that the drawn ball from the third container will be green is ....

i The probability that the drawn ball from the third container will be yellow is ....

11 Complete:

a In the opposite figure:



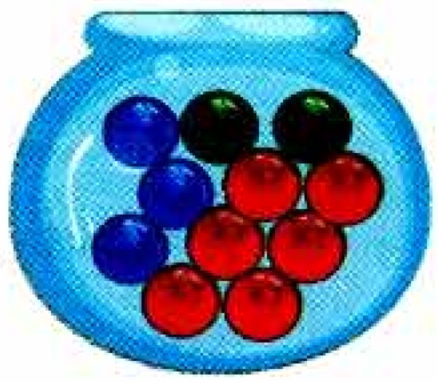
1. The probability of drawing a blue ball = ...
2. The probability of drawing a red ball = ...
3. The probability of drawing a green ball = ...

b In the opposite figure:



1. The probability that the number on the drawn card is an even number = ...
2. The probability that the number on the drawn card is an odd number = ...
3. The probability that the number on the drawn card is less than 9 = ...
4. The probability that the number on the drawn card is more than 6 = ...

c In the opposite figure:



1. The probability that the drawn marble is green = ...
2. The probability that the drawn marble is red = ...
3. The probability that the drawn marble is black = ...
4. The probability that the drawn marble is blue = ...

d In the opposite figure: After spinning the spinner once.



1. The probability that the pointer points at the green part = ...
2. The probability that the pointer points at the red part = ...
3. The probability that the pointer points at the black part = ...
4. The probability that the pointer points at the yellow part = ...
5. The probability that the pointer points at the blue part = ...

12 In a class of 45 pupils, 25 of them are boys and 20 are girls. One day, one of the pupils was absent. **Complete:**

a The probability that the absent pupil is a boy = ...

b The probability that the absent pupil is a girl = ...

Boys	Girls
25	20
Sum = 45	

13 If you know that the dice has 6 faces numbered from 1 to 6, when you throw this dice once. **Complete the following as the example:**





Example: **The probability of getting an even number = $\frac{1}{2}$**

a The probability of getting an odd number = ...

b The probability of getting the number 3 on the upper face = ...

c The probability of getting the number 7 on the upper face = ...

d The probability of getting a number smaller than 7 on the upper face = ...

e The probability of getting a number greater than 4 on the upper face = ...

f The probability of getting a number smaller than or equal to 5 on the upper face = ...

14 Choose the correct answer as the example:



Example:

The probability of the certain event = 1
($\frac{1}{2}$ or 0 or 1 or $\frac{1}{3}$)

a The probability of the impossible event = ... (0 or $\frac{1}{2}$ or $\frac{1}{3}$ or 1)

b When we throw a dice, the probability of getting an even number on the upper face = ... ($\frac{1}{3}$ or $\frac{1}{2}$ or 1 or 0)

c When we toss a coin once, the probability of getting a head = ... (1 or 0 or $\frac{1}{2}$ or $\frac{1}{3}$)

d The event that sun rises in the east is a/an .... event. (certain or possible or impossible)

e If a box has 4 red balls and 5 yellow balls and one ball is picked, then the probability that the picked ball is red = ... ($\frac{2}{5}$ or $\frac{4}{9}$ or $\frac{4}{5}$ or $\frac{5}{9}$)

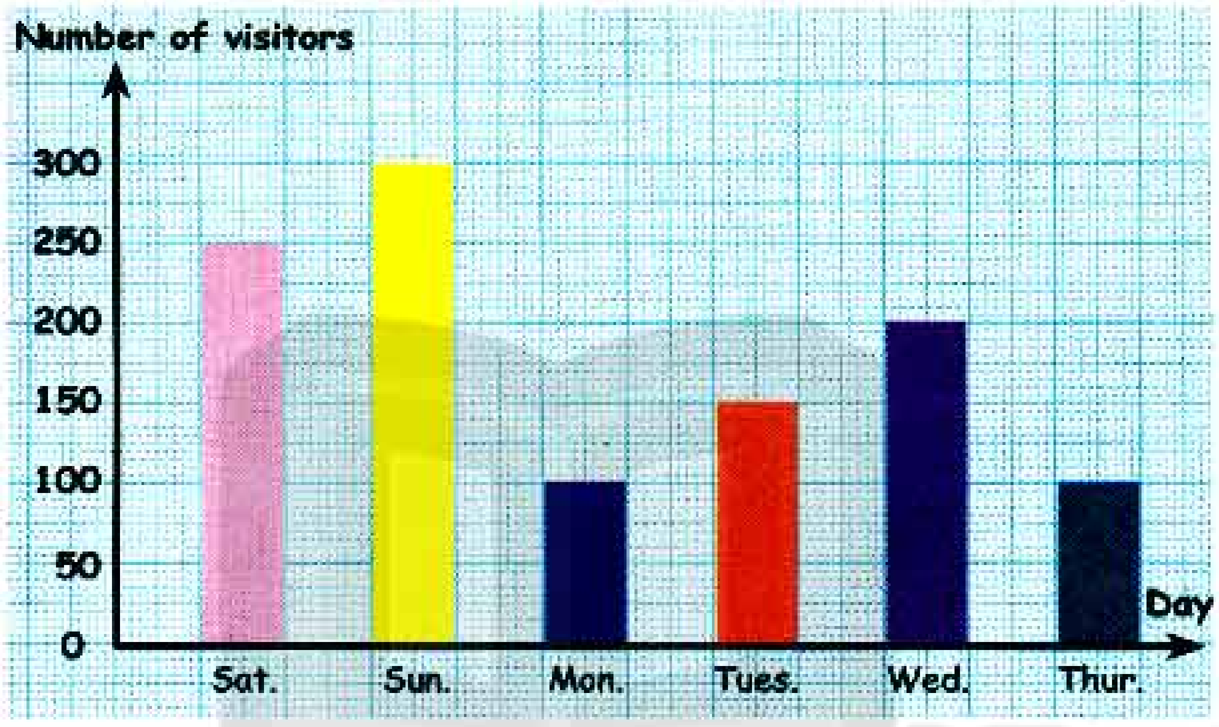
f When you throw a dice, the probability that an odd number appears on the upper face = ... ($\frac{1}{2}$ or $\frac{1}{6}$ or $\frac{1}{3}$ or 1)

g A class has 12 boys and 8 girls. If you close your eyes and point at one student from that class, then the probability that this student is a boy is .... ($\frac{1}{12}$ or $\frac{2}{3}$ or $\frac{3}{5}$ or $\frac{2}{3}$)

General Exercises from the School Book

1 The following graph shows the number of visitors to the zoo during 6 days:

From the graph, answer the following:



First Complete the following table:

The day	Sat.	Sun.	Mon.	Tues.	Wed.	Thur.
The number of visitors	....	....	....	....	....	....

Second Complete:

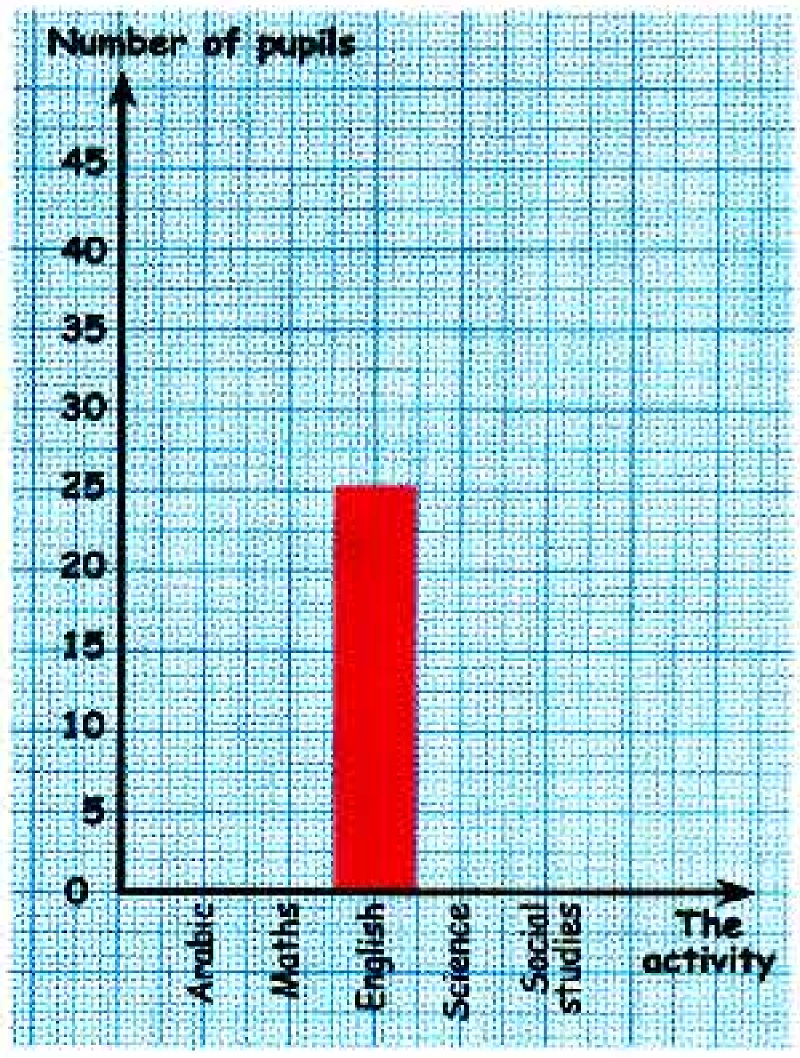
a The least number of the visitors is on ....

b The greatest number of the visitors is on ....

c The difference between the greatest number and the least number of visitors = ...

d The number of visitors who visited the zoo in Monday and Thursday = ...

2 The number of the pupils who participated in school activity teams in different subjects of the 5th primary grade in your school to be evaluated is as follows:

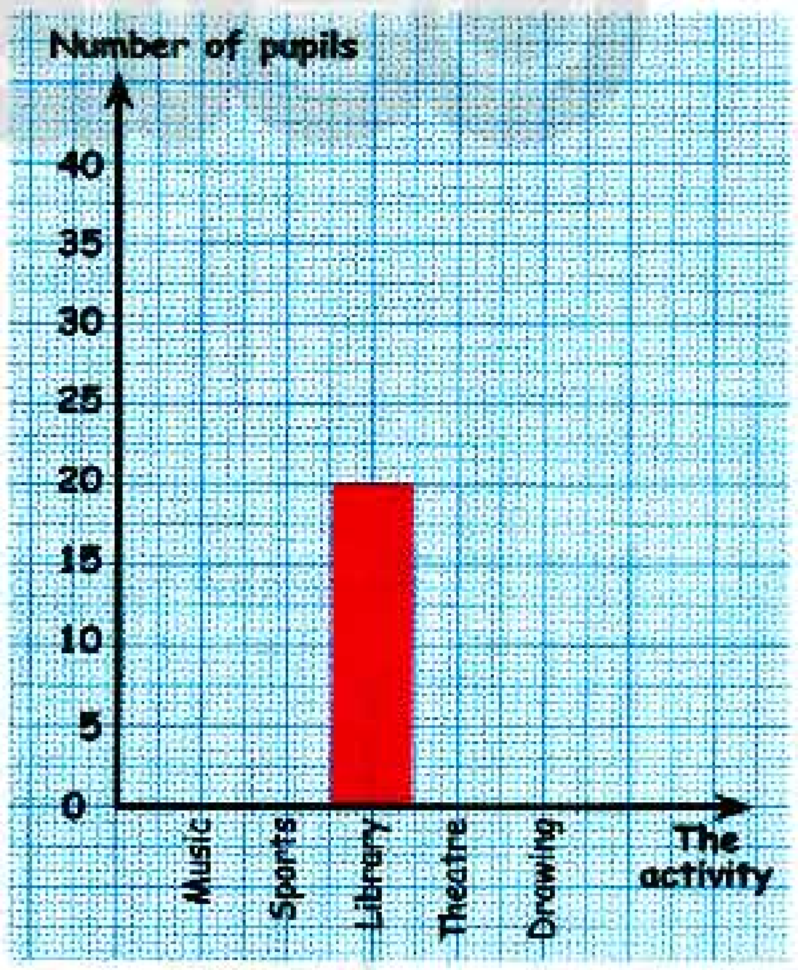


Activity	Arabic	Maths	English	Science	Social studies
Number	30	45	....	20	15

Complete the table, then represent the previous data by a bar chart.

3 The number of the pupils who took part in different school activities of the 3rd primary grade in your school (general evaluation) out of the total marks is as follows:

The activity	The number
Music	15
Sports	30
Library	....
Theatre	15
Drawing	10



First Complete the table.

Second Represent these data by a bar chart.

Third Complete the following.

a The least number of the pupils took part in the activity of ....

b The most number of pupils took part in the activity of ....

c The number of pupils who took part in drawing and library together is ....

d The number of pupils who took part in music and sports activities is ....

e The difference between the pupils who took part in library and theatre activities is ....

f Arrange the activities which the pupils practice ascendingly.

g Arrange the activities which the pupils practice descendingly.

4 The following table shows the kinds of the electric sets in a shop of electric sets:

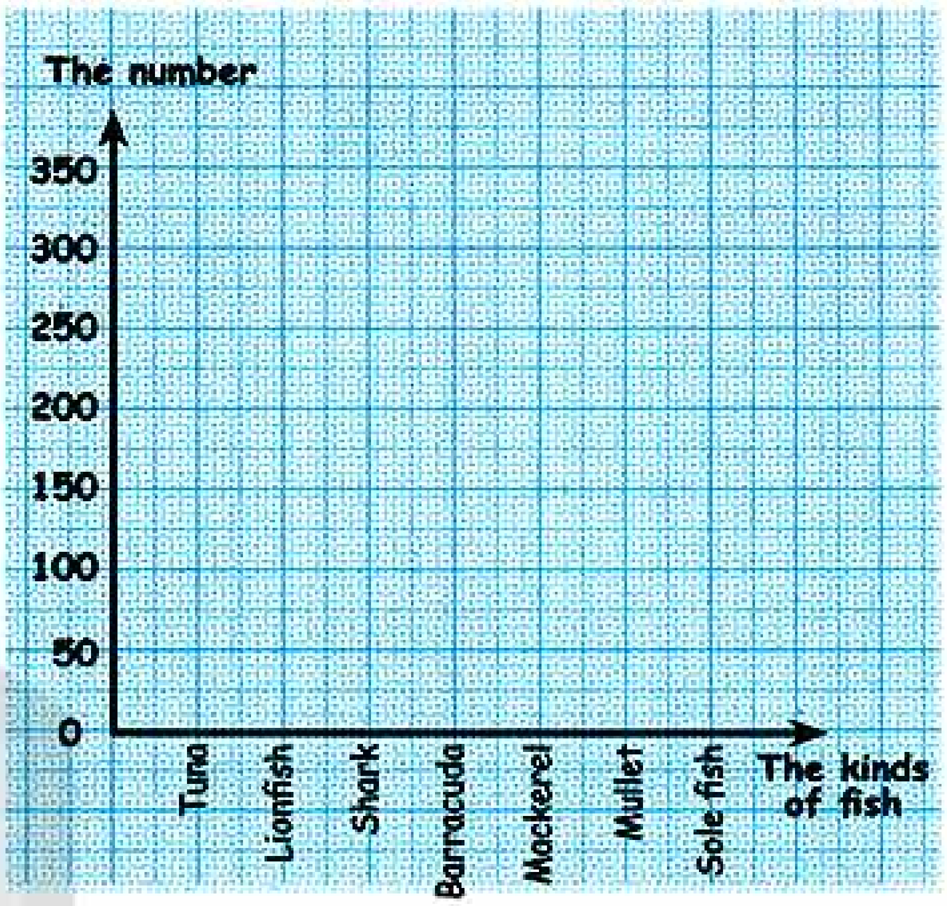
The sets	Fridge	Oven	Heater	Fan	Mixture
The number	60	80	70	100	20

a Represent these data by a bar chart.

b Represent these data by a broken line.

5 The following table shows some kinds of fish which live in the Red Sea.

The kind of fish	The number
Tuna	300
Lionfish	100
Shark	20
Barracuda	150
Mackerel	200
Mullet	250
Sole fish	150



First **a** Represent these data by a bar chart.

Second **b** Represent these data by a broken line.

Third **c** Complete using the previous table.

a The most number of fish is ....

b The least number of fish is ....

c There are two kinds of fish having the same number; they are .... and ....

d The sum of the greatest and the least numbers of fish

= .... + ... = ...

e The difference between the greatest and the least number of fish

= .... - .... = ...

6 The following table shows the production of some crops which some desert governorates are well-known for.

Crops	Dates	Olives	Almonds	Maize	Fruit	Vegetables
The number	70	50	60	50	10	15

a Represent these data by a bar chart.

b Represent these data by a broken line.

7 The following table shows the production of some fundamental crops in the Arab Republic of Egypt:

Crops	Sugarcane	Rice	Wheat	Beans	Cotton	Lentils
The number	70	80	65	70	90	40

Represent these data by a broken line.

8 Complete by writing the word (sure, possible or impossible):

a It is .... that the sky rains roses.

b It is .... that the sun rises in the east.

c It is .... that a man is of 5 metres.

d It is .... that a student gets the full mark.

e It is .... that an elephant flies.

f It is .... that a crocodile lives in dry land.

g It is .... that a hen bears.

h It is .... that the sky is cloudy.

i It is .... that the fish live in water.

9 When tossing a dice once and observing the upper face, find the probability of each of the following events:

- **a** The probability of appearing of an odd number = ...
- **b** The probability of appearing of an even number = ...
- **c** The probability of appearing of a number less than 4 = ...
- **d** The probability of appearing of a number greater than 4 = ...
- **e** The probability of appearing of number 7 = ...
- **f** The probability of appearing of the numbers 1, 2, 3, 4, 5, 6 = ...

10 A box contains 12 balls: 5 balls are white, 4 balls are red and 3 balls are black. Find the probability of each of the following events:

- **a** The drawn ball is red.
- **b** The drawn ball is white.
- **c** The drawn ball is white or black.
- **d** The drawn ball is white or red or black.
- **e** The drawn ball is not red.
- **f** The drawn ball is not white.
- **g** The drawn ball is black.

11 When throwing a metalic coin once and observing the upper face, complete the following:

- **a** The probability of appearing of a head = ...
- **b** The probability of appearing of a tail = ...
- **c** The probability of appearing of a head or a tail = ...

12 Choose the correct answer from those between brackets:

a When tossing a metallic coin once and observing the upper then the probability of appearing of a head = ... ($\frac{1}{2}$ or 1 or zero)

b The probability that sun rises in the east is a/an .... event.
(certain or possible or impossible)

c The probability of appearing of an even number when tossing a dice once = ... ($\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{1}{6}$)

d The probability of the sure event = ... ($\frac{1}{2}$ or 1 or zero)

e The probability of the possible event = ... ($\frac{1}{2}$ or 1 or zero)

f The probability of appearing of the number 8 when tossing a dice once = ... ($\frac{1}{8}$ or 1 or zero)

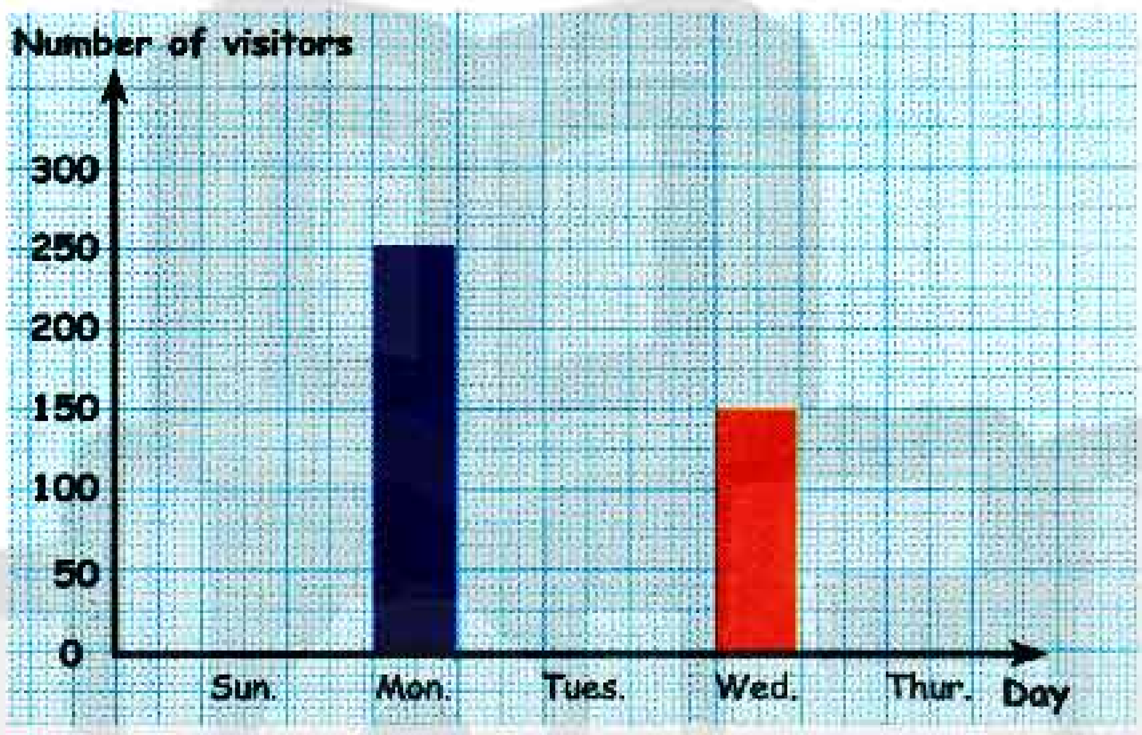
g The probability of appearing of a number less than 3 when tossing a dice once = ... ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{6}$)

h The probability of appearing of a number less than 1 when tossing a dice once = ... (zero or $\frac{1}{2}$ or $\frac{1}{6}$)

Test on Unit (5)

1 The following table and the graph below show the number of visitors to the zoo in 5 days, complete the table and the graph and then answer:

The day	Sun.	Mon.	Tues.	Wed.	Thur.
Number of visitors	300	....	200	....	150



a The smallest number of visitors was .... on ....

b The greatest number of visitors was .... on ....

c The difference between the greatest number and the smallest number of visitors = ...

2 The following table shows the marks obtained by four pupils in a month in an exam of maths:

Name	Essam	Ahmed	Salem	Mohamed
Marks	40	45	30	35

Represent these data by a broken line.

3 Complete each of the following:

a The probability of the impossible event = ...

b The probability of the certain event = ...

c The probability of getting a tail when tossing a coin once =........................ .

c The probability of getting an even number when tossing a dice once = ...

4 If a box has 4 red balls, 6 yellow balls and 2 black balls, find the probability of each of the following events:

a The drawn ball is red.

b The drawn ball is yellow.

c The drawn ball is black.

d The drawn ball is white.

e The drawn ball is not red.

Glossary

A

according to	حسب / طبقًا لـ
add	اجمع
addition	عملية الجمع
among	بين
all	كل
arrange	رتب
ascending	تصاعدى

B

behind	خلف
belong to	ينتمى إلى
between	بين
ball	كرة
big	كبير
bigger than	أكبر من
both of	كلٌ من
bottom	قاع

C

cancel	احذف
choose	اختر
circle	حوط / ضع دائرة حول
classifying	تصنيف
column	عمود
comparison	مقارنة
compare	قارن
comparing	مقارنة
components	مكونات
complete	أكمل
correct	صحيح / مناسب
consist of	يتكون من
congruent	متطابق
cube	مكعب
cuboid	متوازى مستطيلات
curve	منحنى
cylinder	أسطوانة
correspondence	التناظر / المقابلة
count	عُد
cone	مخروط

D

descending	تنازلى
difference	الفرق / اختلاف
different	مختلف
digit	رقم
divide	قسِّم
dot	نقطة
draw	ارسم
deduce	يستنتج
division	القسمة
divisor	مقسوم عليه
dividend	المقسوم

E

eight	ثمانية
eighth	الثامن
element	عنصر
equal to	مساوٍ لـ
example	مثال
exercise	تمرين

F

false	خطأ
fifth	الخامس
find	أوجد

first	الأول
five	خمسة
following	التالى
form	كوِّن
four	أربعة
fourth	الرابع
fractions	كسور
face	وجه
G	
greater than	أكبر من
greatest	الأكبر
H	
half	نصف
I	
in	فى
in front of	أمام
inside	داخل
J	
join	صِل
juice	عصير
L	
left	باقى / يسار
less than	أقل من
lesson	درس
line	خط
list	قائمة
M	
match	صِل
measure	قياس
method	طريقة
minus (-)	علامة الطرح
missing	مفقود
more than	أكثر من
N	
nine	تسعة
ninth	التاسع
number	عدد
O	
object	عنصر / شىء
omit	يحذف
on	على
one	واحد
one whole	واحد صحيح
order	ترتيب
ordinal numbers	الأعداد الترتيبية
outside	خارج
P	
point	نقطة
part	جزء
pencil	قلم رصاص
plus (+)	علامة الجمع
place value	القيمة المكانية
position	مكان / وضع
perimeter	محيط
possible	ممكن
protractor	منقلة
put	ضع
pattern	نمط أو تسلسل
pyramid	هرم
properties	خواص
price	سعر
plate	طبق

Q

quarter	ربع
quotient	خارج القسمة

R

relative	نسبى
relation	علاقة
remaining	الباقى
ruler	مسطرة
result	ناتج
right	يمين / صواب
ring	حوِّط / ضع دائرة حول
row	صف

S

same	نفس
salary	مرتب
second	الثانى
sentence	جملة / عبارة
set	مجموعة
sets	مجموعات
seven	سبعة
seventh	السابع
shape	شكل
sign	علامة / إشارة / رمز
six	ستة
similar	مشابه
sixth	السادس
size	حجم
small	صغير
smaller than	أصغر من
smallest	الأصغر
story problems	مسائل كلامية
still	مازال
subtract	اطرح
subtracted	مطروح من
subtraction	عملية الطرح
suitable	مناسب
sum	مجموع
spend	ينفق
sphere	شكل كروى

T

table	منضدة / جدول
take away	اطرح
the same number	نفس العدد
think	فكِّر
third	الثالث
three	ثلاثة
to the right of	على يمين
to the left of	على يسار
top	قمة
total	المجموع الكلى (الإجمالى)
true	صواب / صحيح
typist	عامل/ عاملة الآلة الكاتبة
two	اثنان

U

under	تحت
underline	ضع خطًا تحت
unit	وحدة

V

value	قيمة
velocity	سرعة
volume	حجم

W

wage	أجرة
weight	وزن
wire	سلك

Worksheet (1) on Lesson (1) Unit (1)

..../25

1 Complete each of the following:

..../5

a 5 + 5 + 5 + 5 = 5 × ....

b 4 × 8 = 8 × ....

c 3 × .... = (3 × 8) + 3

d 8 + 8 + 8 + 8 = (8 × 5) – ....

e 7 × 6 = (7× 9) – (7 × ....)

2 Find the result of each of the following:

..../5

a 8 × 9 = ...

b 3 × 6 + 8 = ...

c 8 × 7+ 70 = ...

d (5 × 5) – 15 = ...

e (7 × 8) – (7 × 7) = ...

3 Choose the correct answer:

..../5

a 2 × 5 .... 5 × 2 [< or = or >]

b 9 × 9 = 9 × 8+ .... [9 or 8 or 7]

c 9 × 8 = 9 × 9 – .... [9 or 8 or 7]

d (4 × 2) × 6 = ... [36 or 38 or 48]

e 3 × (2 × 9) = (3 × 2) × .... [3 or 4 or 9]

4 Arrange the following descendingly:

..../5

(9 × 4) , (7 × 5) , (8 × 6) and (9 × 8)

The order is: .... , ... , ... and ....

5 A man works 8 hours a day. How many hours does he work in a week? (Friday is a weekend).

5

The number of hours = ... × .... = ...

Worksheet 2 till Lesson 2 Unit 1

25

1 Complete each of the following:

5

a 10 × .... = 480

b 720 = 9 × .... × 10

c 9 × 10 = (.................. × 10) + (3 × 10) = ...

d 18 × .... = 18 tens

e 20 + 60 = 8 × ....

2 Join the equal results:

5

a 10 tens b 3 tens + 60 c (8 × 2) × 10 d (9 × 10) + 9 e 300

30 × 10 160 99 100 81 + 9

3 Find the result of each of the following:

5

a 13 × 10 = ...

b 6 × 70 = ...

c (7 × 10) + (8 × 10) = ...

d 6 × 60 = ...

e (819 – 813) × 10 = ...

4 **Put the suitable sign (< , = or >):** 5

a) 8 × 10 .... 9 × 9 b) 40 .... 3 × 2 × 3 × 2

c) 6 × 10 .... 8 × 8 d) 9 × 10 .... 3 × 3 × 10

e) 6 tens .... 7 × 8

5 Hend gets 10 pounds every day from her father. How many pounds does she get in one week? 5

Worksheet (3) till Lesson (3) Unit (1) 25

1 **Complete each of the following:** 5

a) 100 × 3 = 100 + 100 + ... = ...

b) 900 = (3 × 100) + (.................. × 100)

c) 4 × 100 = 100 × .... = ...

d) 1000 = 100 × ....

e) 800 = (9 × 100) − (.................. × ....)

2 **Choose the correct answer:** 5

a) 8 × 100 = ... [80 or 8 or 800]

b) .... × 100 = 3600 [36 or 360 or 3600]

c) 21 metres = ... cm [21 or 210 or 2100]

d) 8 × 10 + 2 × 10 = ... × 10 [1 or 10 or 100]

e) 800 tens = ... hundreds [8 or 80 or 800]

3 Find the result:

5

a) 500 × 2 = ...
b) 2 × 6 × 100 = ...
c) 4 × 2 × 100 = ...
d) 2 × 5 × 10 = ...
e) 70 × 50 = ...

4 Complete the following table:

	7	....	560	180
× 10	....	40	....	....
× 100	....	....	....	....

5 If Adel's father saves 100 pounds in each month regularly, complete:

5

a) What he saves in 8 months = ... pounds
b) What he saves in 10 months = ... pounds
c) What he saves in a whole year = ... pounds

Worksheet (4) till Lesson (4) Unit (1)

25

1 Complete each of the following:

5

a) 1000 × 8 = ...
b) (7 × 8) × 1000 = ...
c) 10 kg = ... gm
d) (1000 × 3) + (1000 × 9) = ... × 1000
e) (2 × 5) × 100 = ...

2 Choose the correct answer:

5

a 1000 × .... × 3 = 21000 [7 or 70 or 7000]

b 700 tens = ... hundreds [7 or 70 or 7000]

c 4 × 3000 = ... [12000 or 120 or 12]

d 7 km = ... m [70 or 700 or 7000]

e 7 thousands = ... hundreds [7 or 70 or 7000]

3 Arrange the following in descending order:

5

(13 × 1000) , (50 × 100) , (10 × 8000) and (30 × 100)

The order is: .... , ... , ... , ... , ...

4 Put the suitable sign (< , = or >):

5

a 1000 × 8 ☐ 100 × 80

b 21 × 3 ☐ 12 × 3

c 9 thousands ☐ 900 tens

d 5 km ☐ 4500 metres

e 2 × 50 × 10 ☐ 1 thousand

5

5

The average profit of a shop is 1000 pounds a week.

What do you expect the profit to be in six weeks?

The profit = ... × .... = ... pounds

Worksheet 5 till Lesson 5 Unit 1

25

1 Choose the correct answer:

5

a 9 × 8 = ... [90 or 72 or 17 or 80]

b 7 metres = ... cm. [10 or 20 or 100 or 700]

c .... kg = 3000 gm. [30 or 3 or 300 or 1000]

d 13 × 2 = ... [260 or 26 or 62 or 620]

e The place value of 5 in 567 is ....

[hundreds or tens or units or thousands]

2 Complete each of the following:

5

a
$$\begin{array}{r} 1\ 2 \\ \times \quad 4 \\ \hline \text{......}\ \text{......} \end{array}$$

b
$$\begin{array}{r} 2\ 3 \\ \times \quad 5 \\ \hline \text{......}\ \text{......}\ \text{......} \end{array}$$

c
$$\begin{array}{r} 1\ 2\ 5\ 0 \\ \times \quad 5 \\ \hline \text{......}\ \text{......}\ \text{......}\ \text{......} \end{array}$$

d
$$\begin{array}{r} 6\ 2\ 1 \\ \times \quad 9 \\ \hline \text{......}\ \text{......}\ \text{......} \end{array}$$

e
$$\begin{array}{r} 2\ \text{.....}\ 7\ 6 \\ \times \quad 3 \\ \hline 7\ 1\ \text{.....}\ \text{.....} \end{array}$$

3 Complete in the same pattern:

5

a 2, 10, 50, ..., ...

b 3, 9, 27.................., ...

4 Put the suitable sign (<, = or >): (6)

a	8 × 10		7 × 6
b	forty		3 × 9
c	3 × 2 × 2		twenty two
d	3 × 1000 + 4 × 1000		8000
e	50 × 100		15 × 1000
f	9 × 100		nine hundreds

5 Aly has 80 pounds, he bought 8 metres of cloth for 9 pounds each. (4)
How many pounds were left with him?
He paid = ... × .... = ...
The money left = ... – .... = ...

Worksheet 6 till Lesson 6 Unit 1 (20)

1 Choose the correct answer: (4)

a. The even number just after 10 is .... [14 or 8 or 12 or 13]

b. 121 metres = ... cm. [1210 or 12100 or 121000 or 1021]

c. The odd number between 9 and 13 is .... [11 or 8 or 10 or 12]

d. The product of two consecutive even numbers is 24, then these two numbers are .... [1 , 24 or 2 , 12 or 3 , 8 or 4 , 6]

2 Complete each of the following: (4)

a. The greatest 3-digit even number consisting of 7, 8 and 0 is ....

b. The smallest 4-digit odd number consisting of 2 , 0 , 1 , 4 is ....

c The two odd numbers whose product is 45 are .... , ...

d The two even numbers whose product is 40 are .... , ...

e The two even numbers whose sum is 12 are .... , ...

3 Complete each of the following:

(/4)

a The numbers 12 , 24 and 36 are called .... numbers.

b The sum of two odd numbers is an .... number.

c $7 \times 203 =$ ....

d $40 \times$ .... $= 4000$

4 Write (even) or (odd) in front of each of the following result:

(/4)

a $3 \times 9 =$ ....

b $4 \times 19 =$ ....

c $21 \times 7 =$ ....

d $28 \times 4 =$ ....

5 Find the price of 8 metres of cloth if the price of one metre is LE 18.

The price of cloth = ... × .... = LE. ....

(/4)

Worksheet 7 till Lesson 7 Unit 1

(/25)

1 Find the result of each of the following:

(/4)

a $468 \div 2 =$ ....

b $707 \div 7 =$ ....

c $(224 \times 4) \div 8 =$ ....

d $\frac{1515}{5} =$ ....

2 Choose the correct answer:

5

a 80 ÷ 10 .... 2 × 4 [< or > or =]

b 10 metres = ... cm [10 or 100 or 1000]

c $\frac{4 \times 4}{4}$ = ... [4 or 16 or 64]

d The smallest even number is .... [0 or 1 or 2]

e The smallest odd number is .... [0 or 1 or 2]

3 Arrange the results descendingly:

5

(1648 ÷ 4) , (6000 ÷ 3), (3500 ÷ 7) and (4000 ÷ 5)

The order is: .... , ... , ... and ....

4

A father distributed 300 pounds equally among his five children during the feast. What was each one's share?

5

The share of each one = ... ÷ .... = ... pounds.

5

Soha bought a car for LE 39100, she paid LE 29355 in cash and the rest of the price would be in 5 equal yearly instalments.

6

What is the value of each instalment?

The rest of the price = ... − .... = LE. ....

The value of each instalment = ... ÷ .... = LE. ....

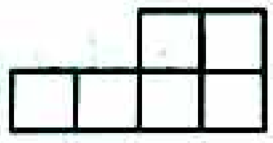
Worksheet 8 till Lesson 1 Unit 2

25

1 Choose the correct answer:

5

a The perimeter of the opposite figure .... units.

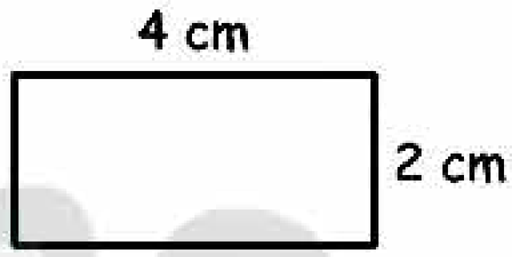


[6 or 10 or 12]

b 909 ÷ 9 = ... [101 or 11 or 10]

c The perimeter of a triangle of side lengths 3 cm, 4 cm and 5 cm is .... cm. [7 or 9 or 12]

d The perimeter of the opposite figure = ...cm.



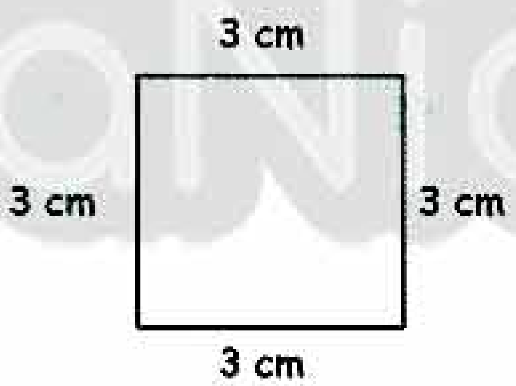
[8 or 10 or 12]

e (5 × 3) + (5 × 2) = 5 × .... [5 or 6 or 7]

2 Find the perimeter of each of the following:

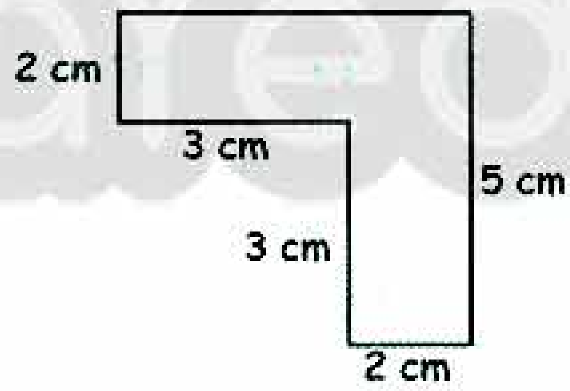
4

a



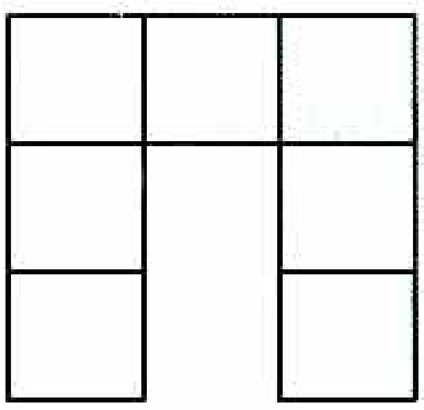
The perimeter = ...

b



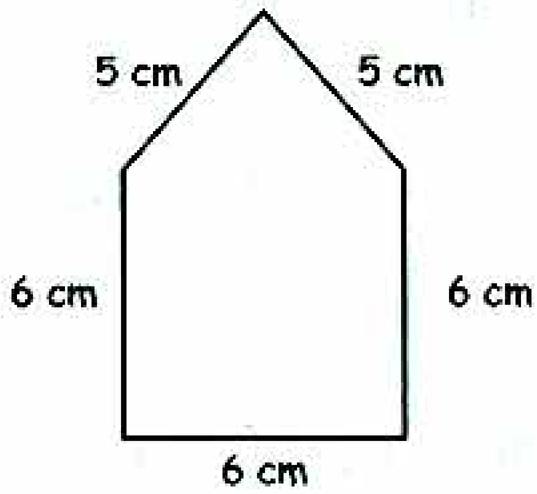
The perimeter = ...

c



The perimeter = ...

d



The perimeter = ...

3 Arrange in descending order: (5)

324 × 3 , 688 + 2 , 1021 ÷ 2 , four hundred and two

The order: .... , ... , ... and ....

4 If the perimeter of a triangular-shaped piece of land is 160 metres and its two sides are equal in length and the length of the third side = 60 metres, find the length of the other sides. (5)

5 Ahmed had 90 pounds, he bought 8 books for 9 pounds each. (6)

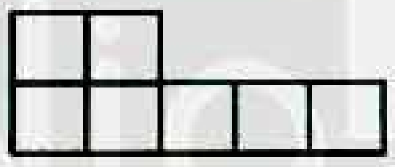
Find how much money left with him.

He paid = ... × .... = ... pounds.

The money left = ... − .... = ... pounds.

Worksheet 9 till Lesson 2 Unit 2 (25)

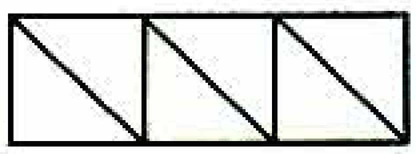
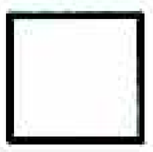
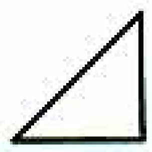
1 Complete each of the following: (5)

a The perimeter of  = ... units and its area = ... ☐

b 6060 ÷ 6 = ...

c 23 km = ... metres

d 1000 + 1000 + 1000+ 1000 = ... × 1000

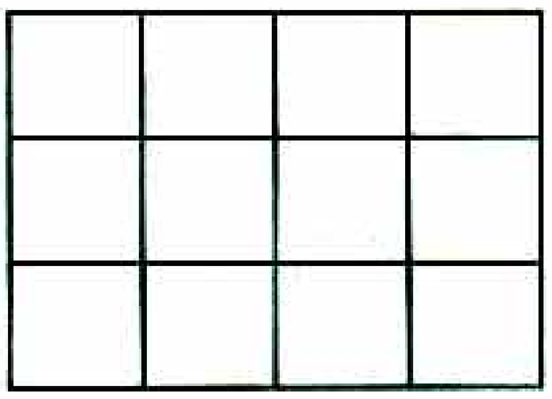
e The area of the  = ...  = ... 

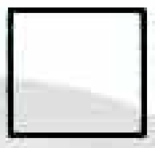
Unit (2)

2 Find the area of each of the following figures:

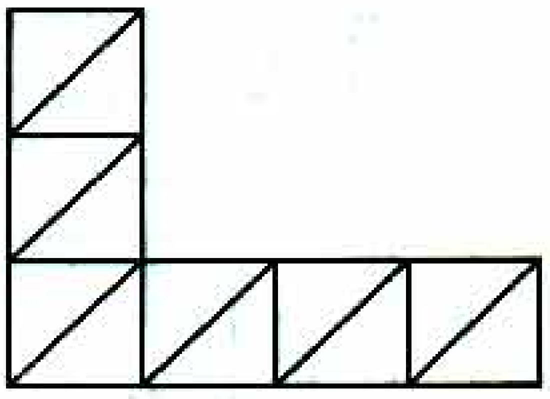
5

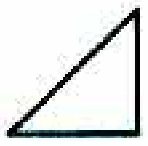
a



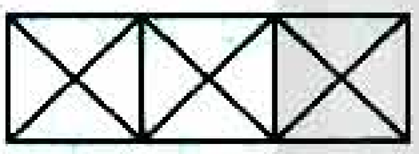
its area = ... 

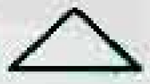
b



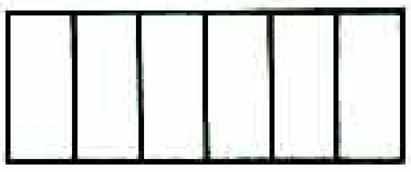
its area = ... 

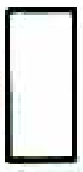
c



its area = ... 

d



its area = ... 

3 Complete in the same pattern:

5

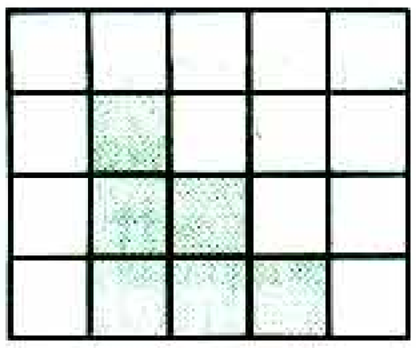
a 4, 6, 8 , ..., ...

b 2, 4, 8 , ..., ...

4 Match each figure with its equal area:

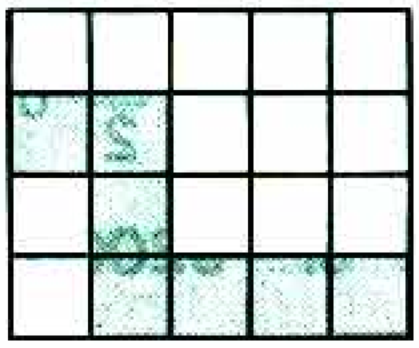
5

1

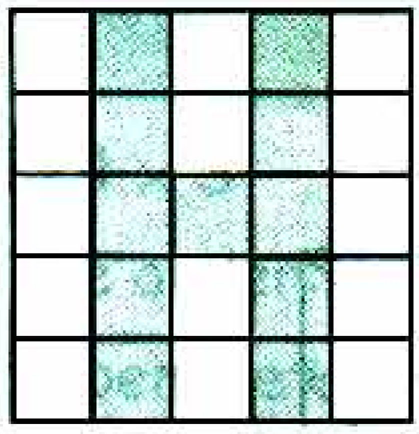


a 11 ☐

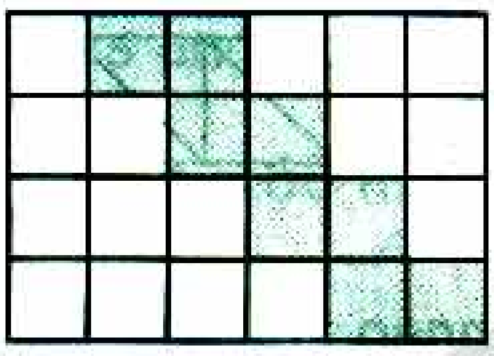
2



b 8 ☐

3 

c 6 ☐

4 

d 7 ☐

5 Which is greater in perimeter? A triangle whose side lengths are 5 cm, 6 cm and 7 cm, or a square whose side length is 7 cm. (…/5)

Worksheet 10 till Lesson 1 Unit 3 (…/25)

1 **Complete each of the following:** (…/5)

a (9 × 2) + (9 × 3) = (9 × ……………)

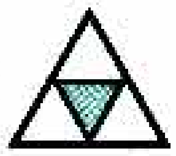
b $1 = \frac{\dots}{6}$

c The numbers 117, 93 and 331 are called …………… numbers.

d The fraction $\frac{3}{13}$ its numerator is …………… and its denominator is ……………

e The fraction $\frac{\dots}{\dots}$ its numerator is 3 and its denominator is 5.

2 **Choose the correct answer:** (…/5)

a The fraction that represents the shaded part of  is ……………

[$\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{5}$ or $\frac{1}{4}$]

b 32 × 1000 = …………… [302 or 320 or 32000 or 3200]

c Five eighths = ... [58 or 85 or $\frac{8}{5}$ or $\frac{5}{8}$]

d 8 × 125 = ... hundreds [1 or 10 or 10]

e Three quarters = ... [$\frac{3}{4}$ or $\frac{1}{2}$ or $\frac{3}{5}$ or $\frac{1}{6}$]

3 **a** Write the following fractions in words: 5

1. $\frac{7}{8}$ ....

2. $\frac{2}{7}$ ....

b How many:

1. fifths are there in one whole? ....

2. elevenths are there in one whole? ....

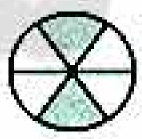
4 Put (✓) for the correct statement and (X) for the incorrect one: 5

a 300 × 30 = 9000 ( )

b 6400 gm= 4 kg and 6 gm. ( )

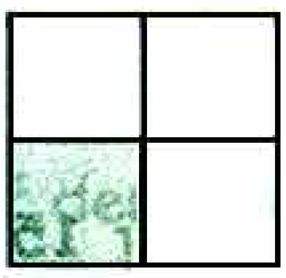
c $\frac{3}{4}$ = four thirds. ( )

d 300 + 300 + 300 = 100 × 3 ( )

e The following shaded parts  = $\frac{2}{8}$ of the whole circle. ( )

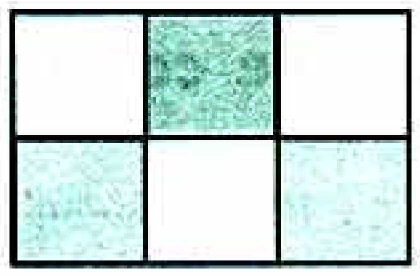
5 Write down the fraction which represents the shaded part in each of the following figures: 5

a



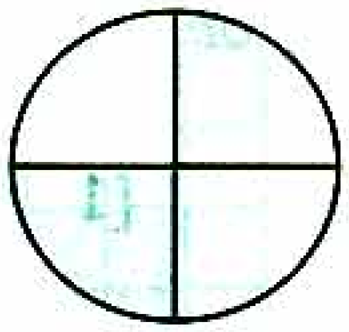
($\frac{\text{.........}}{\text{.........}}$)

b



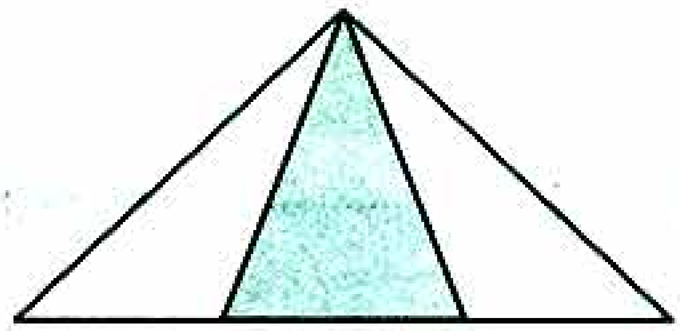
($\frac{\text{.........}}{\text{.........}}$)

c



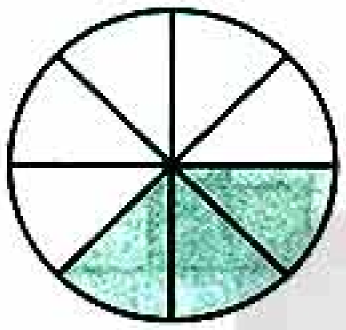
($\frac{\dots\dots}{\dots\dots}$)

d



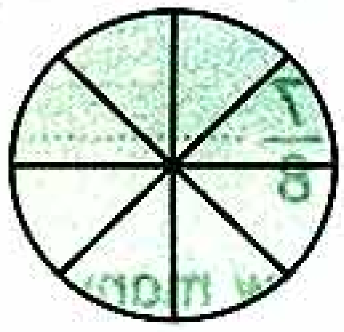
($\frac{\dots\dots}{\dots\dots}$)

e



($\frac{\dots\dots}{\dots\dots}$)

f



($\frac{\dots\dots}{\dots\dots}$)

Worksheet 11 till Lesson 2 (1st part) Unit 3

$\frac{\quad}{25}$

1 Complete each of the following:

$\frac{\quad}{5}$

a 10 × .... = 220

b $\frac{9}{\dots} = \frac{3}{6}$

c A half = $\frac{\dots}{\dots}$

d The perimeter of the figure ☐☐☐☐ is .... units and its area is .... ☐

e $\frac{2}{3} = \frac{4}{\dots} = \frac{\dots}{9}$

2 Choose the correct answer:

$\frac{\quad}{5}$

a $\frac{4}{6}$ = ... [$\frac{15}{24}$ or $\frac{20}{30}$ or $\frac{15}{30}$]

b 1032 × 4 = ... [5228 or 2885 or 4128]

c 200 × 100 = 20 × .... [10 or 100 or 1000]

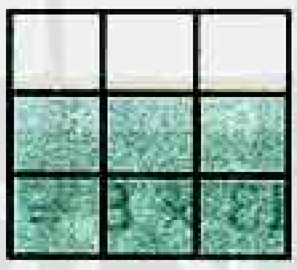
d 7 tens ÷ 7 = ... [10 or 7 or 1]

e half = ... [$\frac{3}{4}$ or $\frac{2}{4}$ or $\frac{1}{4}$]

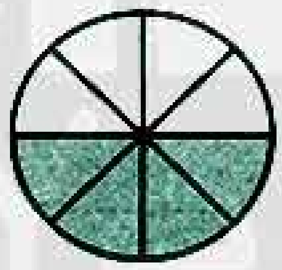
3 Join the equal fractions: (/5)

$\frac{2}{9}$	$\frac{18}{81}$
$\frac{2}{3}$	$\frac{6}{14}$
$\frac{3}{7}$	$\frac{4}{20}$
$\frac{1}{5}$	$\frac{20}{30}$

4 Shade the following figures according to the fraction and then complete: (/5)



$\frac{2}{3} = \frac{......}{9}$



$\frac{1}{2} = \frac{......}{8}$

5 Write: (/5)

a A fraction of numerator 32 and equals $\frac{4}{7}$ ....

b A fraction of denominator 50 and equals $\frac{3}{5}$ ....

Worksheet (12) till Lesson (2) (2nd part) Unit (3)

$\frac{}{25}$

1 Choose the correct answer:

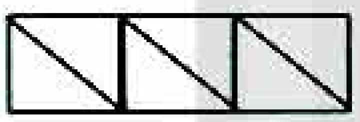
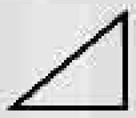
$\frac{}{5}$

a 2×2 .... $(2 \times 3) - (2 \times 1)$ (> or = or <)

b $\frac{9}{18}$ = ... ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{18}$ or $\frac{2}{4}$)

c $(300 + 100 + 6) \div 2$ = ... (203 or 103 or 123 or 312)

d $\frac{1}{2} = \frac{5}{\dots}$ (2 or 5 or 10)

e The area of  = ...  (3 or 4 or 6)

2 Simplify each fraction to its simplest form:

$\frac{}{5}$

a $\frac{12}{24} = \frac{\dots}{\dots}$

b $\frac{6}{18} = \frac{\dots}{\dots}$

c $\frac{7}{49} = \frac{\dots}{\dots}$

d $\frac{10}{20} = \frac{\dots}{\dots}$

e $\frac{3}{12} = \frac{\dots}{}$

3 Complete each of the following:

$\frac{}{5}$

a $10 \times$ .... = 330

b 213×8 = ...

c $\frac{36}{48} = \frac{3}{\dots}$

d $1 = \frac{\dots}{5} = \frac{9}{\dots}$

e The perimeter of the triangle whose side lengths are 5 cm, 8 cm and 10 cm = ... cm

4 From the opposite figure, complete:

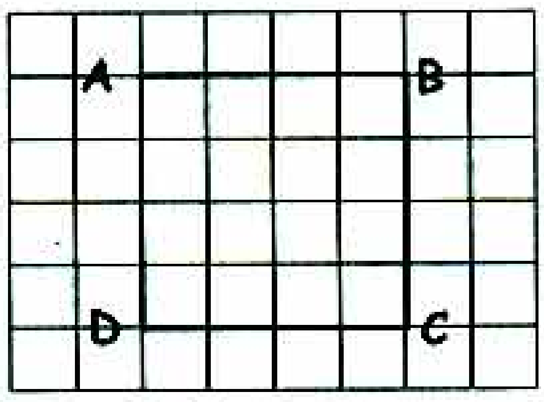
$\frac{}{5}$

AB = ..., DA = ...

ABCD is a ....

The perimeter of ABCD = ... cm.

The area of ABCD = ... □.



5 A factory needs 7 workers to clean it. The wage of one worker is 10 pounds per day. How much money do 7 workers take in 5 days? ($\frac{}{5}$)

a The worker's wage per day = ... × .... = ... pounds.

b The worker's wage in 5 days = ... × .... = ... pounds.

Worksheet (13) till Lesson (3) Unit (3)

($\frac{}{25}$)

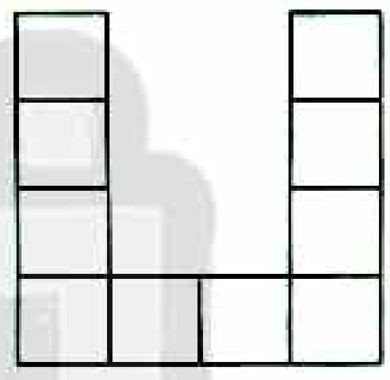
1 **Complete each of the following:** ($\frac{}{5}$)

a $(10 \times 6) -$ .... $= 0$

b $(46 \times 8) = (40 \times 8) + ($ .... $\times 8)$

c 42 pounds = ... piastres

d The area of the opposite shape is .... ☐, its perimeter = ... units.



e $\frac{3}{4} = \frac{6}{\dots}$

2 **Choose the correct answer:** ($\frac{}{6}$)

a $(23 + 12) \div 5 =$ .... (3 or 5 or 7 or 9)

b $\frac{1}{13} >$ .... ($\frac{1}{11}$ or $\frac{1}{12}$ or $\frac{1}{14}$ or $\frac{1}{10}$)

c The two even numbers, whose sum is 100 are ....

(30 , 60 or 31 , 67 or 24 , 29 or 30 , 70)

d $\frac{4}{10} =$ .... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{7}$ or $\frac{2}{5}$)

e The smallest even number is .... (0 or 1 or 2 or 3)

3 **Arrange the following fractions in descending order:** (/5)

$\frac{2}{20}$, 1 , $\frac{4}{20}$ and $\frac{5}{20}$

The order is: .... , ... , ... and ....

4 **Put the suitable sign (< , = or >):** (/4)

a $\frac{3}{5}$ ☐ $\frac{4}{5}$

b $\frac{4}{4}$ ☐ 1

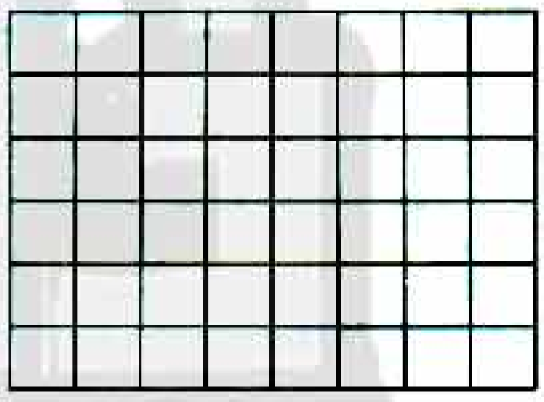
c $\frac{3}{6}$ ☐ $\frac{1}{2}$

d $\frac{5}{6}$ ☐ $\frac{5}{7}$

e 1 ☐ $\frac{3}{4}$

5 **On the following lattice:** (/5)

Draw the square XYZL in which XY = 4 cm and calculate its perimeter and its area.



a Its perimeter = ... cm.

b Its area = ... ☐.

Worksheet 14 till Lesson 4 Unit 3 (/25)

1 **Complete each of the following:** (/5)

a The odd number just after 104 is ....

b $70 \times 30 =$ ....

c $(6 \times 7) - (4 \times 7) = 7 \times$ ....

d $4\frac{1}{2}$ pounds = ... piastres

e An even number + An even number = ...

2 Find the result of each of the following:

$\frac{\quad}{5}$

a $\frac{9}{12} + \frac{3}{12} =$ ....

b $\frac{10}{25} + \frac{8}{25} + \frac{7}{25} =$ ....

c $\frac{7}{11} - \frac{5}{11} =$ ....

d $1 - \frac{5}{12} =$ ....

e $624 \div 2 =$ ....

3 Choose the correct answer:

$\frac{\quad}{5}$

a Seven elevenths = ... ($\frac{7}{10}$ or $\frac{7}{11}$ or $\frac{7}{12}$ or $\frac{7}{\quad}$)

b $\frac{2}{4} =$ .... ($\frac{2}{10}$ or $\frac{1}{10} + \frac{2}{10}$ or $\frac{6}{12}$ or $1 - \frac{3}{4}$)

c 5010 .... 5 = 1002 (+ or × or − or ÷)

d $(1 + \frac{2}{5})$ .... three fifths. (> or = or <)

e 3 km = ... m (30 or 300 or 3000)

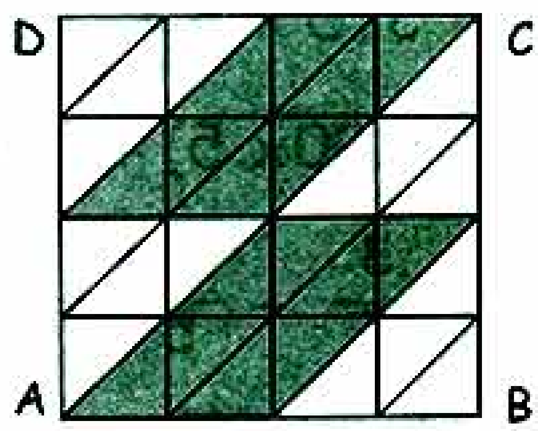
4 Which is greater in perimeter? A square whose side length is 4 cm or a rectangle whose length is 4 cm and its width is 3 cm.

$\frac{\quad}{5}$

5 In the opposite figure:

$\frac{\quad}{5}$

ABCD is a square in which AB = 4 cm, complete:



a The perimeter of the square = ... cm.

b The area of the square = ...

c The shaded parts represent $\frac{\cdots}{\cdots}$ of the area of the square.

Worksheet 15 till Lesson 1 Unit 4

/25

1 Choose the correct answer: /5

a The temperature of the normal human boody is .... °C. (35 or 37 or 10)

b $\frac{20}{30} = \frac{2}{...}$ (2 or 3 or 4)

c $\frac{3}{5} + \frac{1}{5} = 1 - \frac{...}{...}$ ($\frac{1}{5}$ or $\frac{2}{5}$ or $\frac{3}{5}$)

d One seventh + two sevenths $= \frac{...}{7}$ (3 or 4 or 5)

e The odd number lying between 38 and 41 is .... (39 or 38 or 40)

2 Complete each of the following: /5

a .... is used for measuring temperature.

b $\frac{2}{9} + ... = \frac{8}{9}$

c $\frac{4}{8} + \frac{3}{8} + \frac{1}{8} = ...$

d $8 \times .... = 80$

e $1 - \frac{3}{5} = ...$

3 Find the result of each of the following: /5

a $325 \times 8 =$ ....

b $1 - \frac{8}{11} = \frac{...}{...}$

c $(100 \times 5) + (100 \times 8) =$ ....

d $8064 \div 4 =$ ....

e $\frac{3}{5} + \frac{2}{5} =$ ....

4 /5

Which is greater in perimeter? A square whose side length is 4cm or a rectangle whose length is 4 cm and its width is 3cm.

5 The temperature was recorded in one week as follows: (5)

Day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	29°	30°	35°	32°	29°	31°	28°

a The highest temperature was on ....

b The lowest temperature was on ....

c The temperatures were greater than 31° on ....

Worksheet (16) till Lesson (2) Unit (4)

(25)

1 **Complete each of the following:** (5)

a 8735 metres = ... km and .... metres

b 385 cm = ... metres and .... cm

c A square, its side length is 8 cm, then its perimeter = ... cm

d 3 metres = ... cm.

e 30 km = ... m

2 **Arrange the following lengths descendingly:** (5)

1500 m , 3 km , 20000 cm and $4 \frac{1}{4}$ km

The order is: .... , ... , ... and ....

3 **Choose the correct answer:** (5)

a 5000 m = ... km (5 or 50 or 500)

b The suitable unit for measuring the distance between Cairo and Alex is .... (cm or m or km)

c $\frac{3}{5} = \frac{15}{...}$ (15 or 25 or 30)

d $\frac{1}{4}$ km + $\frac{1}{2}$ km = ... m (250 or 500 or 750)

e 30 + 30 + 30 .... 30 × 3 (< or > or =)

4 Match:

(…/5)

a	The odd number lying between 38 and 41 are	**1**	1
b	963 ÷ 3 =	**2**	39
c	$\frac{2}{5} + \frac{3}{5} =$	**3**	$\frac{5}{7}$
d	527 × 6 =	**4**	321
e	$1 - \frac{2}{7} =$	**5**	6324 ÷ 2

5 If Ali took $\frac{3}{5}$ of a cake and his sister took the rest, then find the share of his sister.

(…/5)

Worksheet 17 till Lesson 3 Unit 4

(…/25)

1 Complete each of the following:

(…/5)

a 2 kg and 20 grams = ... grams.

b 3 kg and 250 gm = ... kg.

c 2 kg and 500 gm = ... kg.

d A kilogram and a half = ... gm.

2 Join from the set (A) to the set (B) to get the right answer:

___ / 5

	(A)	(B)
a	From the units of weight is	3 kg
b	3000 gm = ...	even
c	$\frac{1}{8}$ kg = ... gm	odd
d	500 gm = ... kg	50
e	208 is	kilogram
		$\frac{1}{2}$
		125

3 Arrange each of the following in ascending order:

___ / 4

15 kg , 14000 gm , 15 $\frac{1}{4}$ kg and 15 $\frac{1}{2}$ kg

The order is: .... , ... , ... and ....

4

___ / 8

a Complete in the same pattern:

2 , 4 , 8 , ... , ... , ...

b In the following figure:

BCDH is a square, AB = 6 cm, AH = 10 cm and CD = 8 cm.

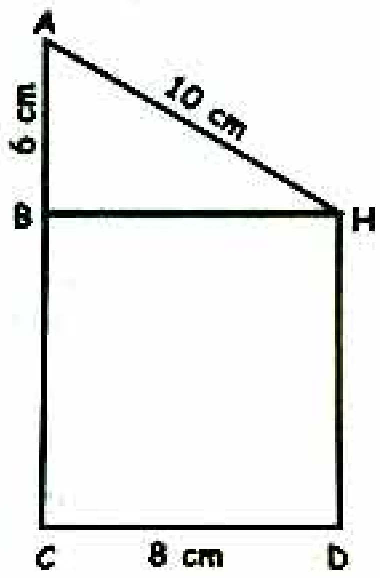
Find: 1) The perimeter of the square BCDH.

....

2) The perimeter of the triangle ABH.

....

3) The perimeter of the whole shape ACDH.



....

5 A father distributed 1264 pounds equally among his four children during the feast. What was the share of each child? (/5)

The share of each one = ... ÷ .... = ... pounds.

Worksheet 18 till Lesson 4 Unit 4 (/25)

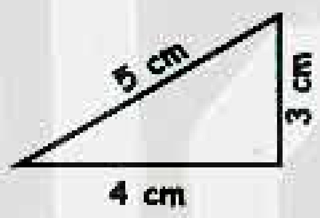
1 **Choose the correct answer:** (/5)

a The number of days in a year = ... (356 or 360 or 365 or 370)

b One day and two hours = ... hours. (25 or 26 or 28 or 29)

c $\frac{1}{4}$ = ... ($\frac{4}{16}$ or $\frac{3}{4}$ or $\frac{1}{2}$)

d 1392 ÷ 4 .... 1392 ÷ 6 (> or = or <)

e The perimeter of 

is .... (12 cm or 9 cm or 7 cm)

2 **Find the result:** (/5)

a 379 × 5 = ...

b 1352 ÷ 8 = ...

c 10 × 970 = ...

d (13 × 100) + (2 × 100)= ....

e $\frac{1}{7} + \frac{3}{7} + \frac{2}{7}$ = ...

3 **a** Arrange each of the following in descending order: (/5)

$\frac{5}{8}$, $\frac{3}{8}$, $\frac{7}{8}$ and $\frac{1}{8}$

The order is : .... , ... , ... , ...

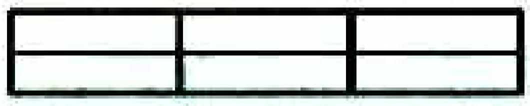
b 49 hours 2 weeks 3 days and 73 hours

The order is : .... , ... , ... , ...

4 Complete each of the following:

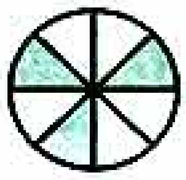
5

a 3 × 5 × 100 = ...

b The area of the  = ... ▭.

c 5350 metres = ... kilometres and 350 metres.

d The even number = the odd number + ...

e The shaded part of  = $\frac{...}{...}$

5 Look at the calender, then answer the questions:

5

a What is the first day in this month?

b What is the last day in this month?

c What is the number of Fridays in that month?

d What day is the date of 25 January?

January 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Worksheet 19 till Lesson 1 Unit 5

25

1 Choose the correct answer:

5

a $1 - \frac{1}{2} = \frac{...}{4}$ (1 or 2 or 4)

b 500 × 20 = ... thousands (1 or 10 or 100)

c The suitable length of a boy = ...(15 m or 150 cm or 15 cm)

d 202020 ÷ 2 = ... (101010 or 10010 or 10001)

e The thermometer is used for measuring ....

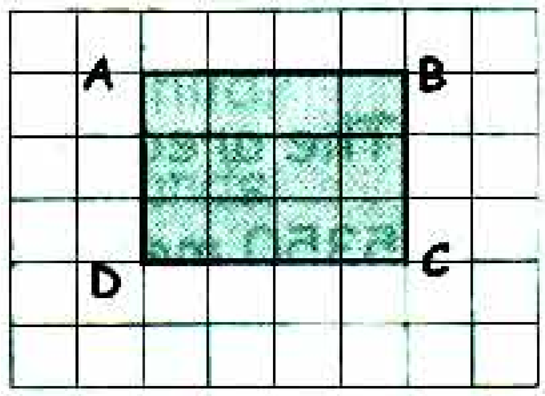
(length or weight or temperature)

2 Arrange the following fractions in ascending order:

$$\frac{3}{7} , \frac{5}{7} , 1 , \frac{2}{7} , \frac{6}{7}$$

3 From the following figure, complete:

5



a AB = ... = ... units.

b BC = ... = ... units.

c The perimeter of ABCD = ... units.

The area of ABCD = ... ☐ .

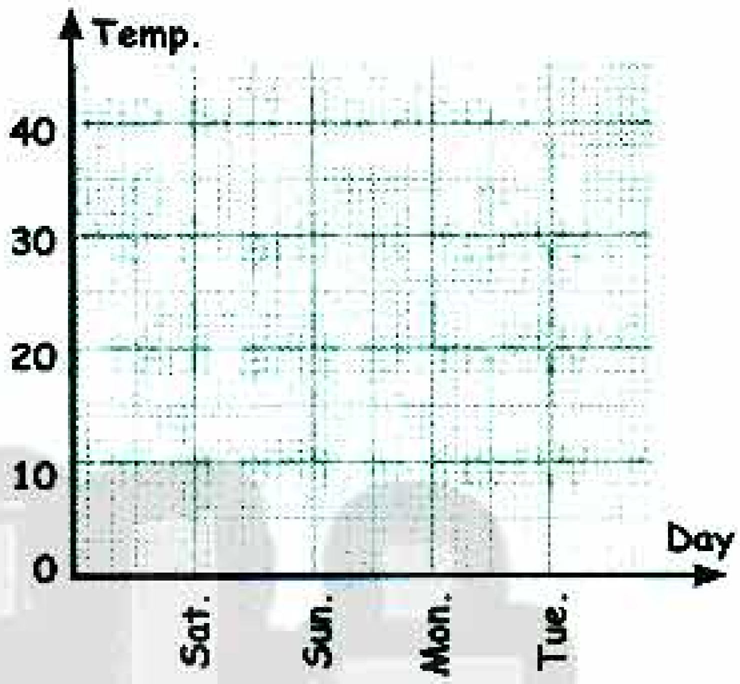
4

a Complete in the same pattern:

5, 10, 15, ... , ... , ...

b The following table shows the temperature degrees recorded in 4 days.

Day	Sat.	Sun.	Mon.	Tue.
Temp.	20	40	10	40

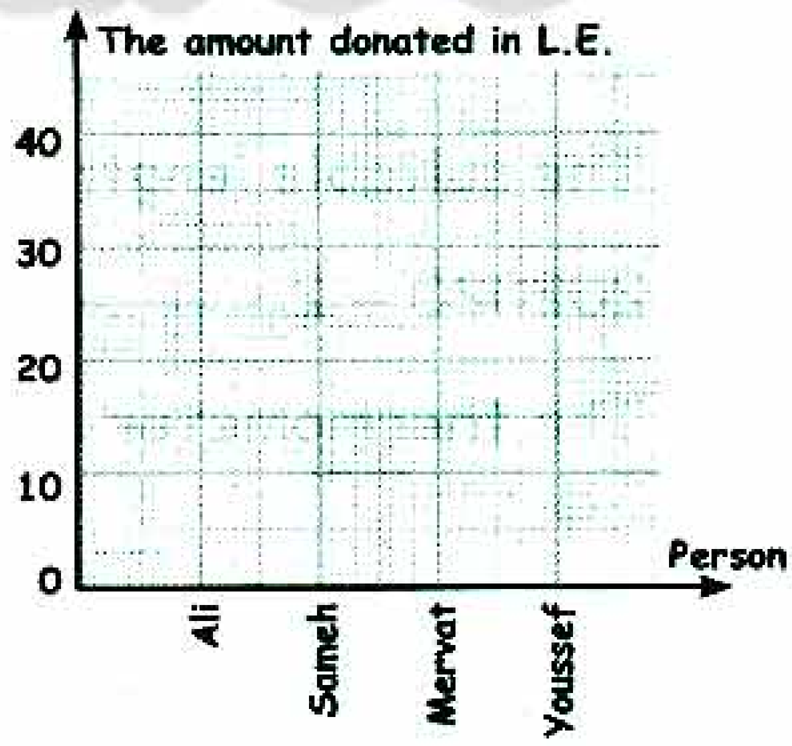


Represent these data by a broken line.

5

The following table shows the donations of four people to one of the hospitals.

Name of persons	The amount donated in L.E.
Ali	10
Sameh	40
Mervat	20
Youssef	30



Represent these data by bar line.

Worksheet (20) till Lesson (2) Unit (5)

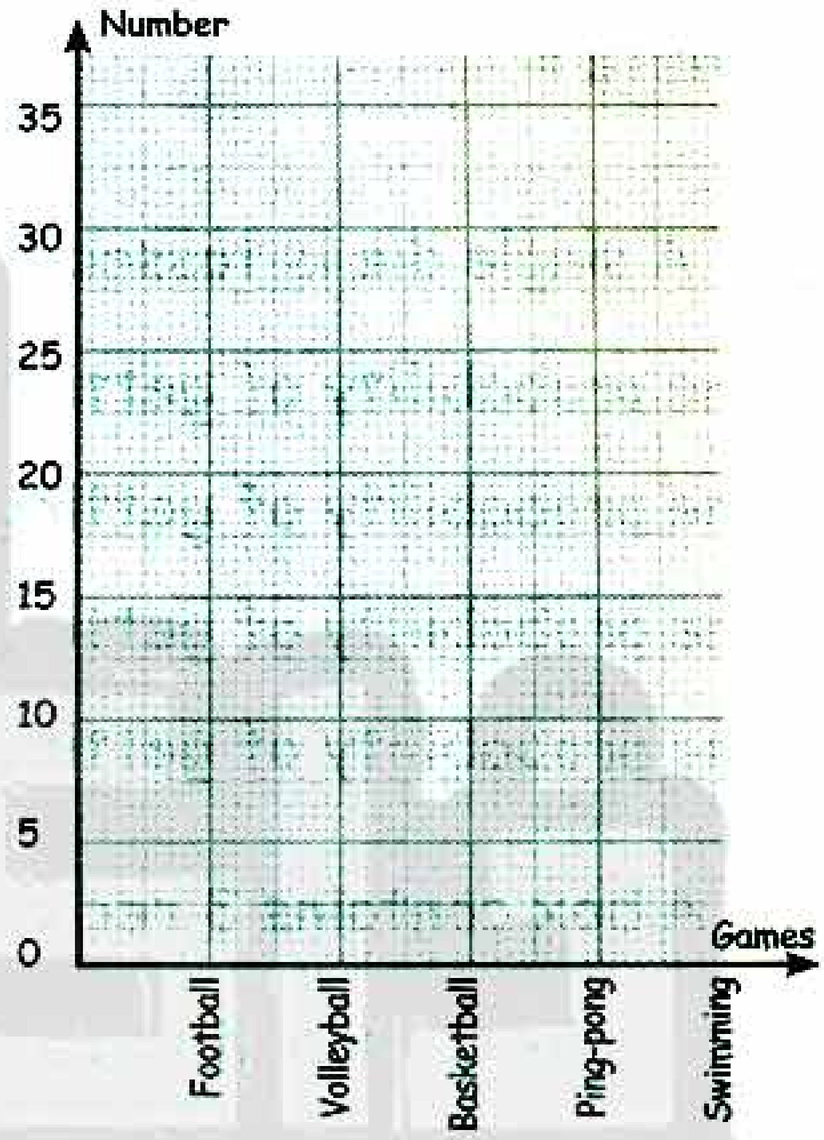
25

1 The following table represents the favourite games for some students:

5

Games	Number
Football	15
Volleyball	20
Basketball	10
Ping-pong	25
Swimming	10

Represent these data by using bar graph.



2 Choose the correct answer:

5

a It's.........., that an elephant flies. (sure or possible or impossible)

b The sun rises from west. It's ....(sure or possible or impossible)

c Aly goes to school. It's .... (sure or possible or impossible)

d The day follows night. It's .... (sure or possible or impossible)

e Getting a head when a coin is tossed. It's ....
(sure or possible or impossible)

3 A box contains 3 red balls , 5 green and 7 yellow. A ball is chosen at random, find the probability that the chosen ball is: (…/5)

Red	Green	Yellow
3	5	7

a Green = $\frac{\dots\dots}{\dots\dots}$

b Red or green = $\frac{\dots\dots}{\dots\dots}$

c White = $\frac{\dots\dots}{\dots\dots}$

4 A single die is tossed once, write down (…/5)

a The probability of getting an even number.

b The probability of getting an odd number.

c The probability of getting a number less than 3.

d The probability of getting a number less than 1.

5 A box contains 3 red balls, 4 green and 5 white. (…/5)

One is chosen at random, find the probability:

a The chosen one is red.

b The chosen one is green or white.

c The chosen one is yellow.

d The chosen one is red or green or white.

Mid-term Exam Models

Model 1

1 Complete each of the following:

1. $4 \times 7 = 7 \times$ ....
2. $3 \times$ .... $= 3 \times 9 - 3 \times 1$
3. $720 = 9 \times$ .... $\times 10$
4. $13 \times 10 =$ ....
5. $900 = 30 \times$ .... $\times 3$
6. $500 \times 2 =$ ....
7. $1\,000 \times 8 =$ ....
8. 700 tens = ... hundreds
9. $(3 \times 5) \times 100 =$ ....
10. $9 \times 8 =$ ....
11. $31 \times 5 =$ ....
12. 7 metres = ... cm.
13. The odd number between 9 and 12 is ....
14. The even number just after 6 is ....
15. The sum of two odd numbers is .... numbers.
16. $707 \div 7 =$ ....
17. $1\,515 \div 5 =$ ....

2 Choose the correct answer:

1. 2×5 .... 5×2 (< or = or >)
2. $3 \times (2 \times 9) = (3 \times 2) \times$ .... (3 or 4 or 9)
3. $8 \times 100 =$ .... (80 or 8 or 800)
4. $8 \times 10 + 1 \times 10 =$ .... $\times 10$ (1 or 9 or 10)

5. 23 metres = ... cm. (23 or 230 or 2300)
6. 10 kg = ... gram. (100 or 1 000 or 10 000)
7. 7 thousands = ... hundreds. (7 or 70 or 7 000)
8. $9 \times 8 =$ .... (90 or 72 or 80)
9. .... kg = 3 000 gram. (3 or 30 or 300)
10. Forty .... twenty seven. (< or = or >)
11. The smallest even number is .... (zero or 2 or 1)
12. $80 \div 8 = 20 \div$ .... (2 or 4 or 5)
13. The even number just before 8 is .... (4 or 6 or 10)
14. $36 \div 4$ .... $7 - 3$ (< or = or >)
15. 30 tens = ... hundreds. (3 or 30 or 300)
16. The place value of 5 in 521 is .... (hundreds or tens or thousands)
17. $9 \times 9 = 9 \times 8 +$ .... (9 or 8 or 7)

3 Answer the following questions:

a Arrange each of the following descendingly.

(3×6) , (5×8) , (4×6) and (9×8)

The order is: .... , ... , ... and ....

b A man works 7 hours a day, how many hours does he work in 9 days? ....

The number of hours = ... hours.

c Using the following numbers, identify:

3 215, 3 210, 5 217, 5 328

The odd numbers: .... , ...

The even numbers: .... , ...

Model 2

1 Complete each of the following:

1. $5 \times$ .... $= 8 \times$ ....
2. $24 \div$ .... $= 1 \times 3$
3. $(5 \times 6) - 20 = 2 \times$ ....
4. $810 = 90 \times$..................
5. $400 = 100 \times$ ....
6. $5 \times 3 \times 100 =$ ....
7. 700 tens = ... thousands.
8. 7 metres = ... cm.
9. 2, 10, 50, ... , ... in the same pattern.
10. The greatest 3-digit even number is ....
11. $7070 \div 7 =$ ....
12. $32 \div 4 = 2 \times$ ....
13. The smallest even number is ....
14. 5 km = ... metres.
15. $3 \times$ .... $= 7 \times 3 + 3 \times 1$

2 Choose the correct answer:

1. 3×5 .... 5×3 (< or = or >)
2. 9×10 .... $3 \times 4 \times 10$ (< or = or >)
3. $36 \times$ .... $= 3\,600$ (10 or 100 or 1 000)
4. 70 tens = ... hundreds. (7 or 70 or 700)
5. $40 \times 50 =$ .... (100 or 200 or 2 000)

6. 1 000 × .... = 100 × 10 (1 or 10 or 100)
7. 7 km = ... m. (7 or 700 or 7 000)
8. 123 × 3 = ... (339 or 369 or 639)
9. Forty five .... 40 + 50. (< or = or >)
10. The greatest even number consisting of three digits is .... (990 or 997 or 998)
11. The smallest even number is .... (0 or 1 or 2)
12. The sum of two odd numbers is .... number. (even or odd or others)
13. (5 × 5) ÷ 5 = 5 × .... (2 or 4 or 5)
14. 27027 ÷ 9 = ... (303 or 3 003 or 33)
15. 332 × 4 = ... (1 328 or 1 238 or 1 328)

3 Answer the following questions:

a Arrange in ascending order.

(36 ÷ 6) , (49 ÷ 7) , (81 ÷ 9) and (20 ÷ 4)

The order is: .... , ... , ... , ...

b A man distributed L.E. 309 among his three sons equally ,then the share of each one = ... = ... pounds.

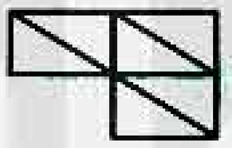
c Find the result of:

$$\begin{array}{r} 1\ 2\ 3 \\ \times\ 5 \\ \hline \dots\dots \end{array}$$

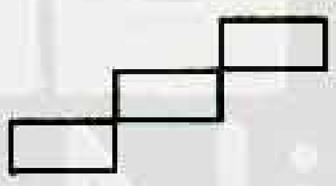
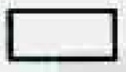
$9 \overline{)8\ 1\ 0\ 9}$ = ...

Pre-exam final Revision

1 Complete each of the following:

1. $7 \times 8 = 7 \times 9 - (7 \times$ ………………$)$.
2. $30 + 60 = 9 \times$ ………………
3. $700 = 9 \times 100 - ($……………… $\times 100)$.
4. 7 thousands = ……………… hundreds.
5. $321 \times 5 =$ ………………
6. The greatest 3-digit even number is ………………
7. $7070 \div 7 =$ ………………
8. The perimeter of a rectangle whose height is 5 cm and its width is 3 cm is …… cm.
9. The area of the  = ……  = …… 
10. The fraction $\frac{3}{7}$ its numerator is …… and its denominator is ……
11. $\frac{4}{5} = \frac{8}{.....} = \frac{.....}{15}$
12. $1 = \frac{.....}{5} = \frac{9}{.....}$
13. The smallest even number is ……
14. $\frac{24}{36} = \frac{.....}{.....}$ (in the simplest form)
15. $\frac{5}{11} + \frac{3}{11} =$ ……
16. $1 - \frac{2}{7} =$ ……
17. $\frac{3}{7} + \frac{4}{7} = \frac{2}{7} + \frac{.....}{.....} =$ ……
18. 9753 metres = …… km and …… metres
19. $\frac{2}{7} + \frac{.....}{.....} = \frac{5}{7}$
20. One day and three hours = …… hours
21. It's …… that a hen bears

2 Choose the correct answer:

1. 4×5 .... 5×4 ($<$ or $=$ or $>$)
2. 7 tens .... 8×9 ($<$ or $=$ or $>$)
3. 21 metres = ... cm. (21 or 210 or 2 100)
4. 50 tens = ... hundreds. (5 or 50 or 500)
5. 32×3 .... 23×4 ($<$ or $=$ or $>$)
6. $3 \times 1\,000$ .... $20 \times 100 + 600$ ($<$ or $=$ or $>$)
7. The smallest odd number .... the smallest even number. ($<$ or $=$ or $>$)
8. 9×101 (999 or 909 or 990)
9. $448 \div 4 =$ .... (212 or 222 or 112)
10. The perimeter of a square whose side length is 5 cm = ... (20 or 25 or 50)
11. The area of  = ...  (3 or 4 or 5)
12. Five eighths = ... (58 or $\frac{5}{8}$ or $\frac{8}{5}$)
13. $\frac{27}{81} = \frac{3}{.....}$ (3 or 6 or 9)
14. $\frac{3}{7} + \frac{5}{7} = 1 + \frac{.....}{.....}$ .... ($\frac{1}{7}$ or $\frac{2}{7}$ or $\frac{7}{7}$)
15. $\frac{5}{10} =$ .... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{5}$)
16. $(32 + 13) \div 9 =$ .... (4 or 5 or 6)
17. $\frac{5}{8} + \frac{2}{8} = 1 - \frac{.....}{.....}$ .... ($\frac{1}{8}$ or $\frac{2}{8}$ or $\frac{3}{8}$)
18. $\frac{1}{4}$ km + $\frac{1}{2}$ km = ... m . (250 or 500 or 750)

19 The probability of the impossible event = ... (0 or 1 or $\frac{1}{2}$)

20 The day = ... hours. (23 or 24 or 25)

3 Find the result of each of the following:

1 $7 \times 9 + 7 =$ ....

2 $819 - 19 = 8 \times$ ....

3 $70 \times 40 =$ ....

4 $3 \times 1\,000 + 2\,000 =$ .... $\times 1\,000 =$ ....

5 $125 \times 4 =$ ....

6 $(42 \div 6) + 13 =$ ....

7 $2\,121 \div 7 =$ ....

8 $\frac{3}{12} + \frac{5}{12} = \frac{.....}{.....}$ .... in its simplest form

9 $\frac{5}{11} - \frac{3}{11} = \frac{.....}{.....}$ ....

10 $1 - \frac{3}{7} = \frac{.....}{.....}$

11 3 km $+ 2$ km $=$ .... m.

12 $\frac{3}{8} + \frac{5}{8} = \frac{.....}{.....}$

13 $\frac{1}{7} + \frac{3}{7} + \frac{2}{7} = \frac{.....}{.....}$

14 $970 \times 10 =$ ....

15 $2406 \div 6 =$ ....

16 $9009 \div 9 =$ ....

17 $(20 + 80) \times 3 =$ ....

18 $\frac{9}{27} - \frac{2}{27} =$ ....

19 $\frac{6}{9} - \frac{4}{9} =$ ....

20 $325 \times 4 =$ ....

4 Arrange each of the following in ascending order:

a **1** $\frac{2}{20}$, 1, $\frac{4}{20}$ and $\frac{5}{20}$ =

2 (9×4), (6×5), (8×3), and (9×9)

3 (13 × 100), (50 × 100), (10 × 800), and (30 × 100)

4 1500 m, 3 km, 2 000 m and $4\frac{1}{4}$ km

5 2 kg, 3 kg, 250 gm and 3 500 gm

6 $\frac{4}{7}$, $\frac{2}{7}$, $\frac{1}{7}$ and $\frac{5}{7}$

b 1 Ahmed bought 5 toys for 25 pounds each. Find the price of toys.

2 Which is greater in perimeter? A square of side length 5 cm or a rectangle whose length is 4 cm and its width is 3 cm.

3 Ali has L.E. 1 he bought a pen for L.E. $\frac{3}{4}$.
Find the remainder with Ali.

4 A triangular piece of land its perimeter is 200 m, if the sum of the lenghts of two sides is 135 m. Find the length of the third side.

5 A box has 12 balls, 5 balls are white, 4 balls are red and the rest are black, find the possibility of

(1) Getting a red ball. (2) Getting a black ball.

(3) Getting non - white ball.

5 A Find the perimeter of each of the following:

1 A triangle whose side lengths are 5 cm, 7 cm and 3 cm.

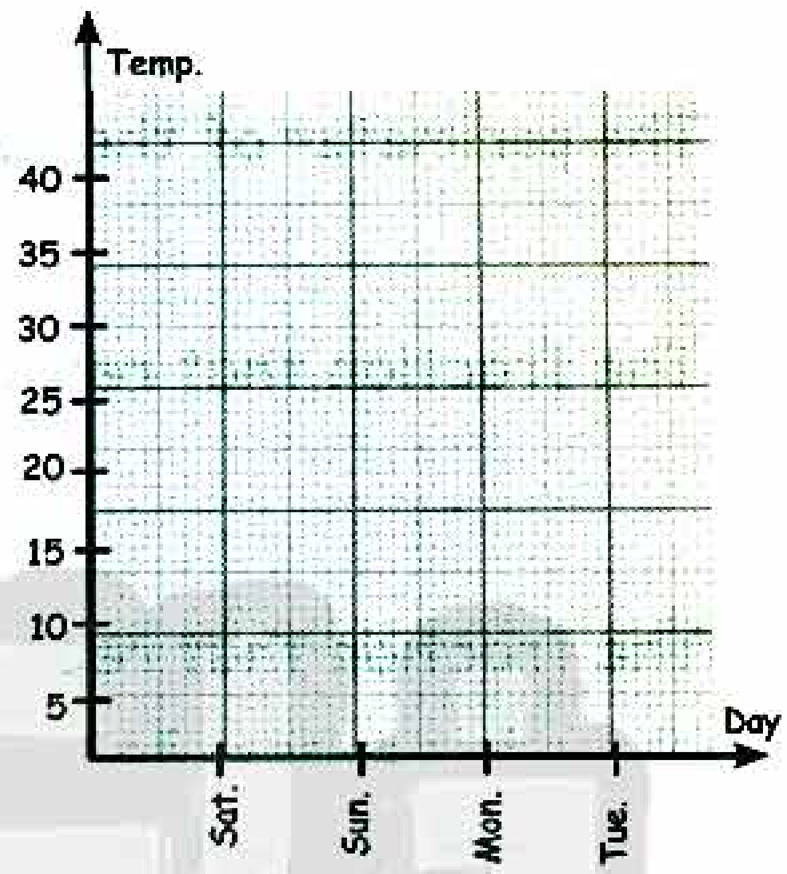
2 A rectangle whose length is 7 cm and its width is 3 cm.

3 A square whose side length is 6 cm.

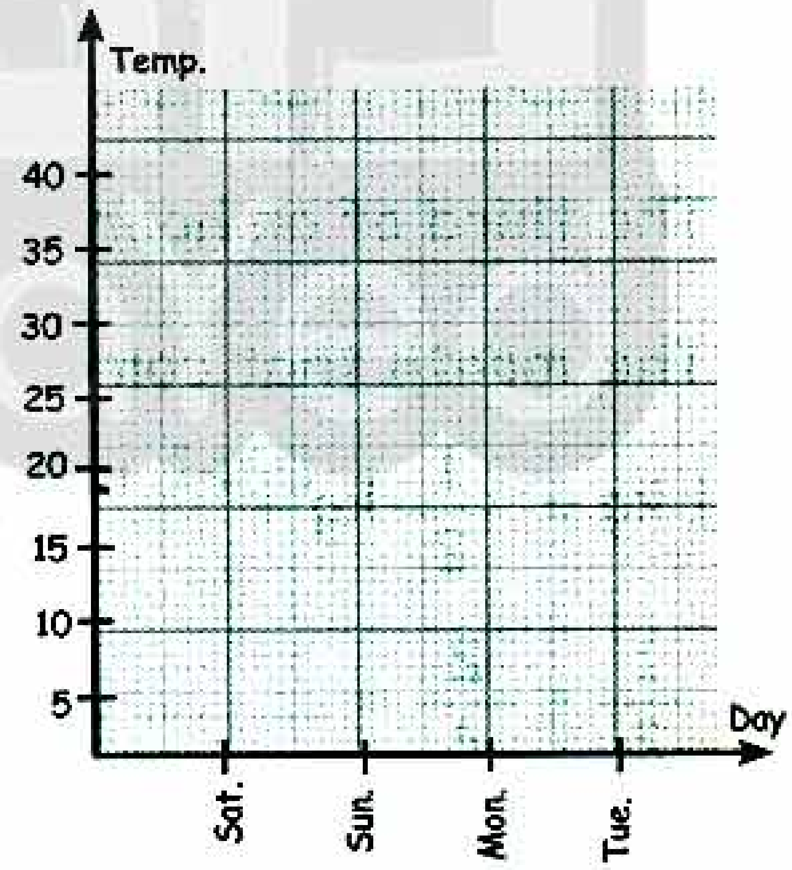
B The following table shows the temperature degrees recorded in 4 days:

Day	Sat.	Sun.	Mon.	Tue.
Temp.	30	20	40	25

1 Represent these data by a broken line graph.



2 Represent these data by a bar line graph.



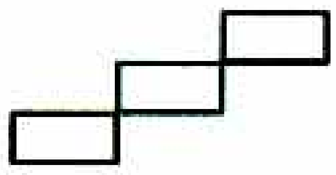
Basic Skills

1 Complete:

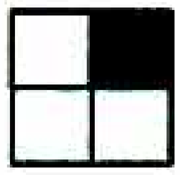
a) 5 + 5 + 5 = ... × .... = ...

b) The numbers of legs of 5 boys is .... legs.

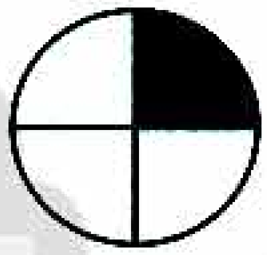
c) The perimeter of the opposite figure is .... unit.



d) The fraction that represents the non-shaded part is ....



e) The fraction that represents the shaded part is ....



f) If 2 litres of milk fill 6 cups, then 1 litre of milk fills .... cups.

g) △○, △○○, △ .... in the same pattern.

h) The third of an hour = ... minutes.

i) The month that comes just after March is ....

j) 1 kg = $\frac{1}{2}$ kg + ... kg.

k) $\frac{1}{2} + \frac{2}{4}$ = ...

l) 7 × .... = 49.

m) Zero × 50 = ...

n) A man divided 28 pounds among his 4 sons, then what each son takes = ...

= .... pounds.

2 Put the suitable sign (> , = or <):

a 6×2 .... 2×6.

b $\frac{1}{2}$ kg .... $\frac{1}{4}$ kg.

c Zero $\times$ 5 .... Zero $\times$ 4.

d $7 + 7$ .... 2×7.

e $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ .... 1.

f 2 weeks .... 12 days.

g $40 \div 5$ .... 4×2.

h $12 \div 3$ .... $12 \div 4$.

i The number of edges of a cube .... number of edges of a cuboid.

j The number of faces of a cube .... number of vertices of a cube.

k 24 hundreds .... 30 tens.

l The measure of the right angle .... the measure of the acute angle.

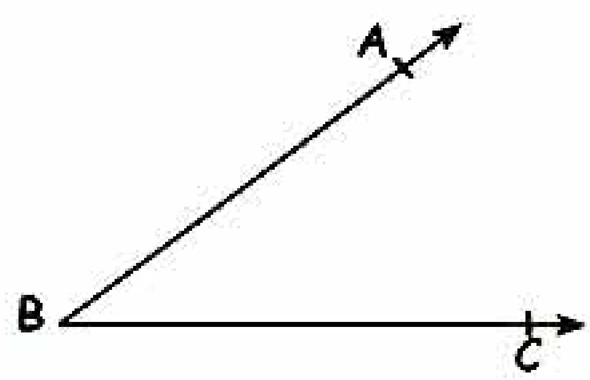
m 3 metres .... 300 cm.

n $7256 + 1744$ 9000

o Three thousand and six hundred .... $2000 + 1460$

3 a Draw a line segment $\overline{AB}$ of length 4 cm:

b In the opposite figure.

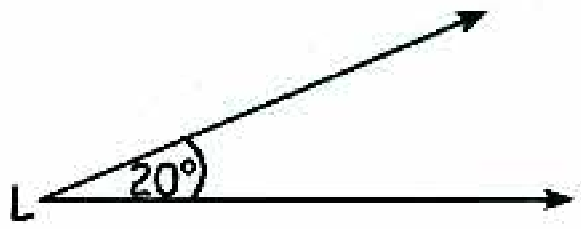


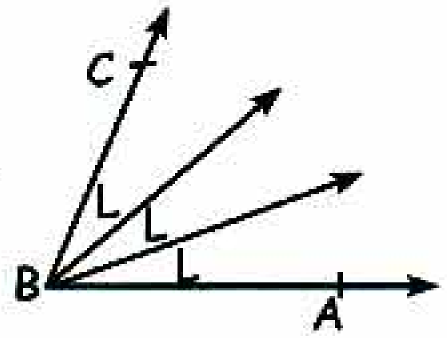
(1) The name of the angle is ....

(2) The vertex of the angle is ....

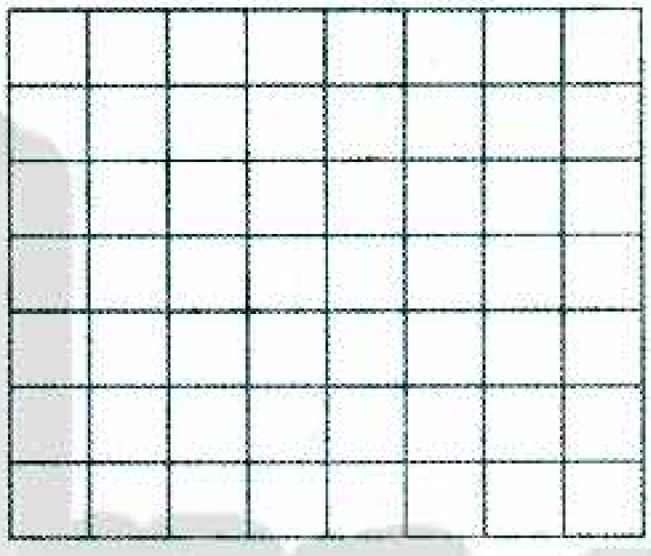
(3) The type of the angle is ....

(4) The two sides are ...., ...

c By using the angle  find

the measures of ∠ ABC. 

d Draw a rectangle whose dimensions are 3 and 5 unit length.

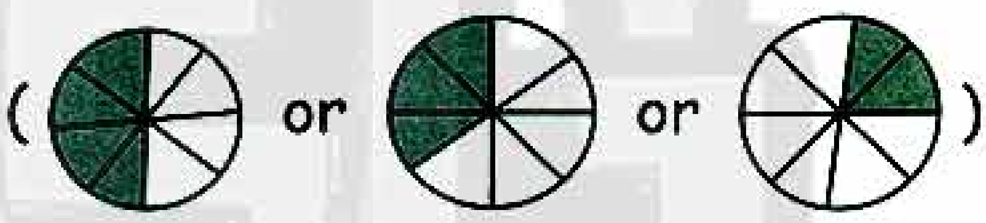
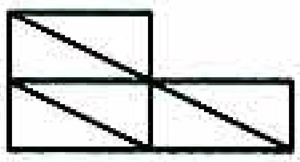
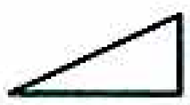


Examination Models from the School Book

Model 1

Answer the following questions:

1 Choose the correct answer:

1. 5 tens = 5 × .... (10 or 100 or 1 000)
2. Five sixth .... $\frac{6}{6}$ (< or = or >)
3. Which of the following numbers represent an odd number? (5 361 or 5 362 or 5 366)
4. Which fraction represents $\frac{1}{4}$? ()
5. $\frac{1}{7} + \frac{2}{7} =$ .... (1 or $\frac{3}{7}$ or $\frac{1}{7}$)
6. The suitable unit for measuring the length of a pencil is .... (metre or cm or km)
7. The side length of the square whose perimeter is 20 cm = ... (5 or 80 or 10)
8. Which of the following numbers represents an even number? (4 tens + hundred or 363 ÷ 3 or 325 × 5)
9. The area of the figure  = ...  (3 or 4 or 6)
10. The number if we multiply by 213 the result will be 21300 is .... (10 or 100 or 1000)

11 A father distributed 183 pieces of chocolate among his 3 sons, then what each son takes = ... pieces.

(16 or 61 or 26)

12 The normal temperature of the human being is ....

(70° or 30° or 37°)

13 If $206 \times 2 = 412$, then $412 \div 2 =$ .... (206 or 306 or 10)

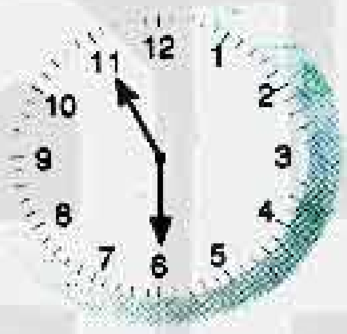
14 Ahmed want to buy 135 notebooks, if the price of each notebook is L.E. 8 then, the total sum which Ahmed paid could be expressed by ....

(add $135 + 8$ or multiply 135×8 or divide $135 \div 8$)

15 The fraction which if you add $\frac{4}{6}$ to it the result is 1 is ....

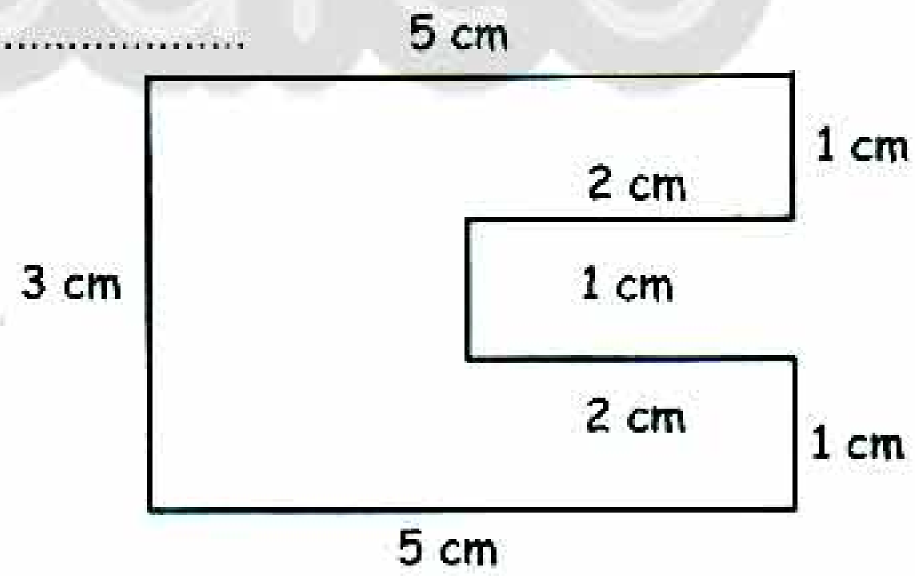
($\frac{4}{6}$ or $\frac{2}{6}$ or $\frac{4}{4}$)

16 Tell the time ....



(It's 6 o'clock or It's five to six or It's five past six)

17 The perimeter of the opposite figure is ....



(10 cm or 15 cm or 20 cm)

18 The probability of getting an odd number as tossing a dice once is ....

(1 or $\frac{1}{2}$ or zero)

19 The probability of the impossible event = ...

(1 or $\frac{1}{2}$ or zero)

20 Two years and a month = ... months

(12 or 24 or 25)

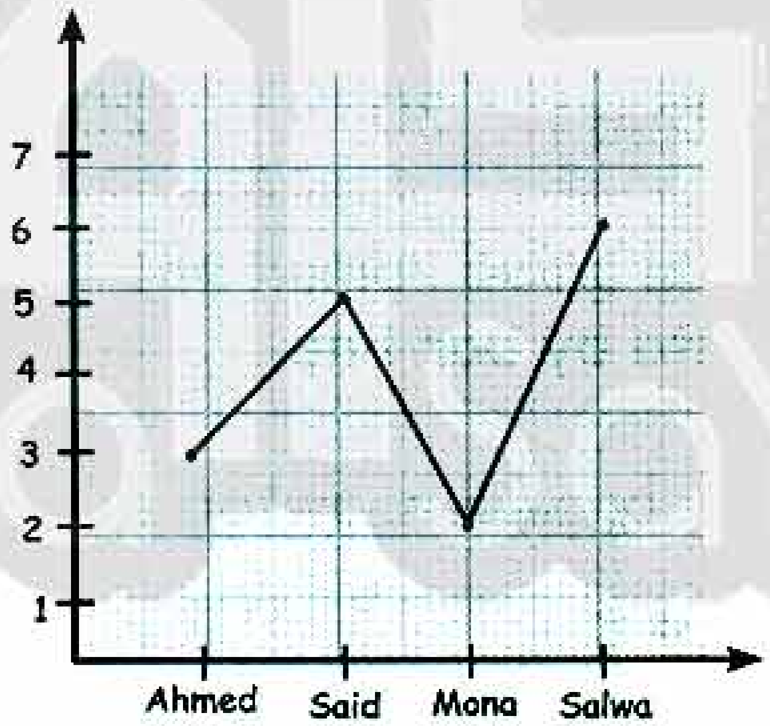
2 Complete each of the following:

1 $\frac{16}{24} = \frac{4}{.....}$

2 5 kg + 275 gm = ... gm

3 300 = 400 – (10 × ....)

4 The following figures represent the number of hours in which a set of pupils study. Find the name of the pupils who study more hours.



5 236 × 4 = ...

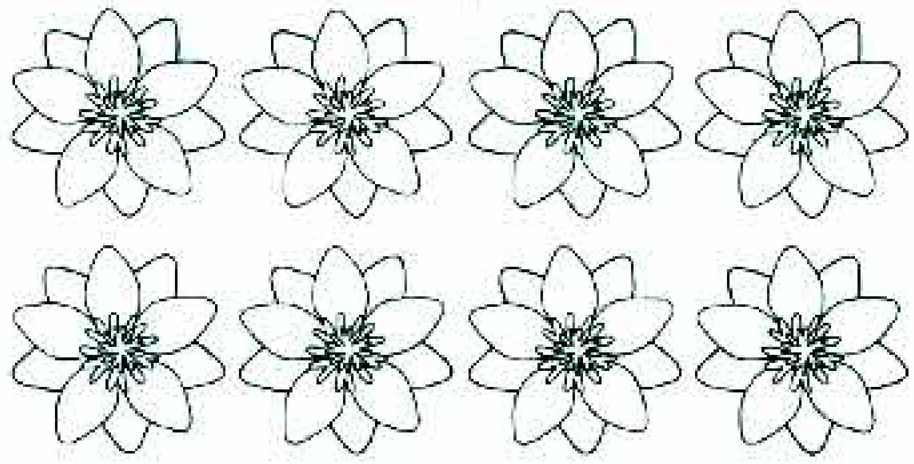
6 4, 40, 400, ..., ... in the same pattern.

7 The ascending order of the following fraction $\frac{1}{2}$, $\frac{2}{8}$, $\frac{1}{6}$, $\frac{1}{5}$ is

...................., ..., ... and ....

8 The perimeter of an equilateral triangle of side length 4 cm = ... cm.

3



1 Colour $\frac{1}{4}$ of the opposite flowers.

2 Amer bought 4 jackets the price of each is 375 pounds, find what Amer paid.

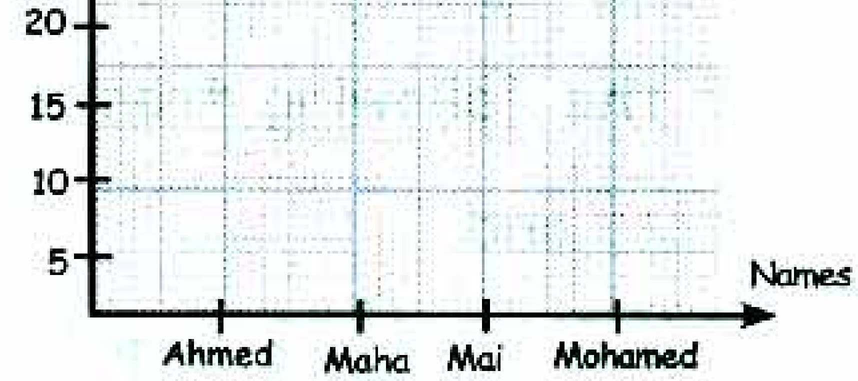
Amer paid = ... = ... = pounds

3 Arrange in ascending order two days and two hours, 48 hours, 5 days.

4 The following table represents the degrees of same pupils in maths in one month.

Name	Ahmed	Maha	Mai	Mohamed
Degrees	25	30	20	45

Represent these data by bar line



Model 2

Answer the following questions:

1 Choose the correct answer:

1. $1 - \frac{4}{6} = \frac{1}{6} + \dots\dots$ $(\frac{1}{6}$ or $\frac{2}{6}$ or $\frac{6}{6})$

2. A box has 10 symmetric ball, 5 are white and the rest are red, if a ball is drawn randomly, then the probability that the drawn ball is red = ... $(\frac{1}{4}$ or $\frac{1}{3}$ or $\frac{1}{2})$

3. Two days and two hours = ... hours. (40 or 50 or 96)

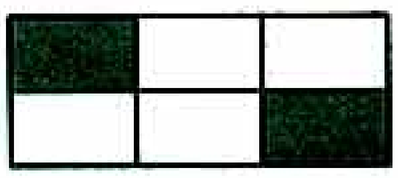
4. Which of the following fractions is arranged ascendingly?
$(\frac{1}{2}, \frac{1}{4}, \frac{1}{3}, \frac{1}{4}$ or $\frac{1}{2}, \frac{1}{3}, \frac{1}{5}, \frac{1}{4}$ or $\frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2})$

5. $136 \times 100 = \dots\dots$ (360 or 13 600 or 136 000)

6. The normal temperature of the human being is .... (73° or 37° or 30°)

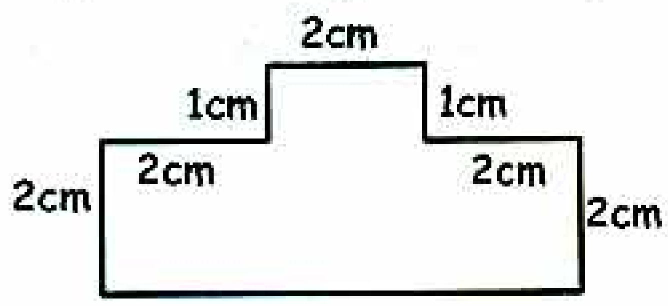
7. The number of even numbers between 20 and 40 is .... (2 or 6 or 4)

8. The fraction that represents the shaded part of the following figure is ....



$(\frac{2}{8}$ or $\frac{1}{2}$ or $\frac{1}{3})$

9. The perimeter of the opposite figure is ....



(16 or 18 or 10)

10 If a teacher divided 260 pens between two pupils, then the share of each one = ... (102 or 130 or 120)

11 The fraction that if added to $\frac{1}{4}$ the results is $\frac{2}{4}$ is .... ($\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{4}$)

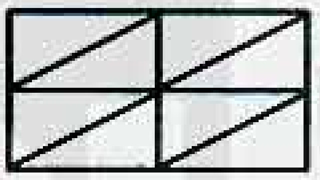
12 The probability of the sure event is .... ($\frac{1}{2}$ or zero or 1)

13 $\frac{1}{2} + \frac{1}{2}$ ☐ $\frac{5}{5}$ (< or = or >)

14 Which of the following numbers is not an even number? .... (268 or 407 or 610)

15 3 tens + ... = 33 (3 or 4 or 6)

16 The suitable unit for measuring your class is .... (metre or cm or km)

17 The area of the opposite figure  = ... 

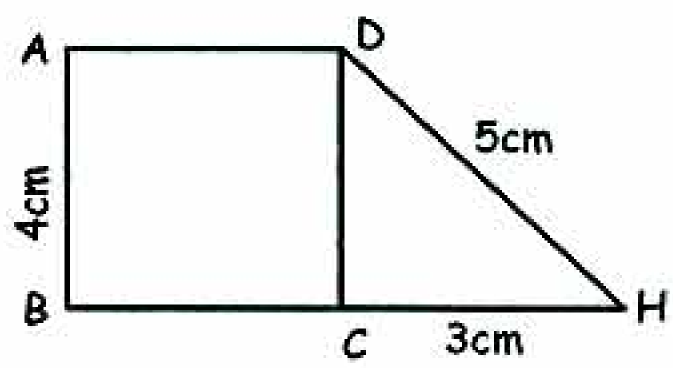
(4 or 8 or 12)

18 Seham bought 813 notebooks, the price of each is 6 pounds, then to count the total price we need to carry out .... operation.

(adding or multiplying or dividing)

19 3 hundred .... 4 hundred – (10 × 20) (< or = or >)

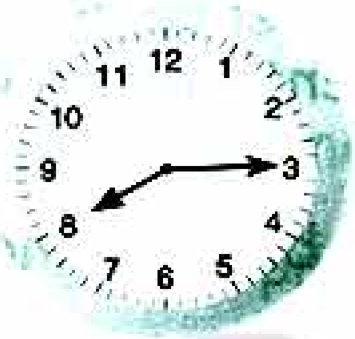
20 In the following figure ABCDis a square, AB = 4 cm, DH = 5 cm and CH = 3 cm. Find the perimeter of the figure.



(22 or 20 or 24)

2 Complete:

1. The number that if multiplied by 615 the result is 615000 is ....
2. Complete to get an odd number: 214 + ...
3. Tell the time ....



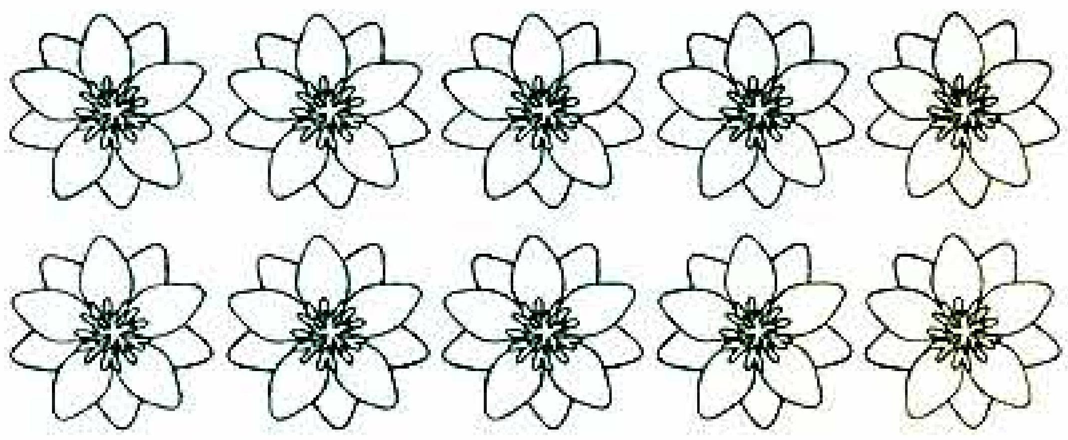
4. If Hossam has 6 notes of 100 pounds each and 40 notes of 10 pounds each, then what Hossam has = ... pounds
5. 12, 36, 108, ..., ... pounds (in the same pattern)
6. The following table shows the number of hours that some pupils spend studying, find the difference between the greatest number of hours and the smallest number. The difference = ...

Name	Mona	Ahmed	Salma	Mohamed
Number of hours	6	8	4	5

7. The number that if divided by 8 the result is 16 is ....
8. 6 kg and 250 gm = ... gm.
9. $\frac{12}{27} = \frac{4}{.....}$

3 Answer the following:

1. Colour 5 of the opposite flowers.



2 Hossam bought 6 pairs of shoes if the price of each pair is 25 pounds, what did he pay?

What he paid = ... pounds

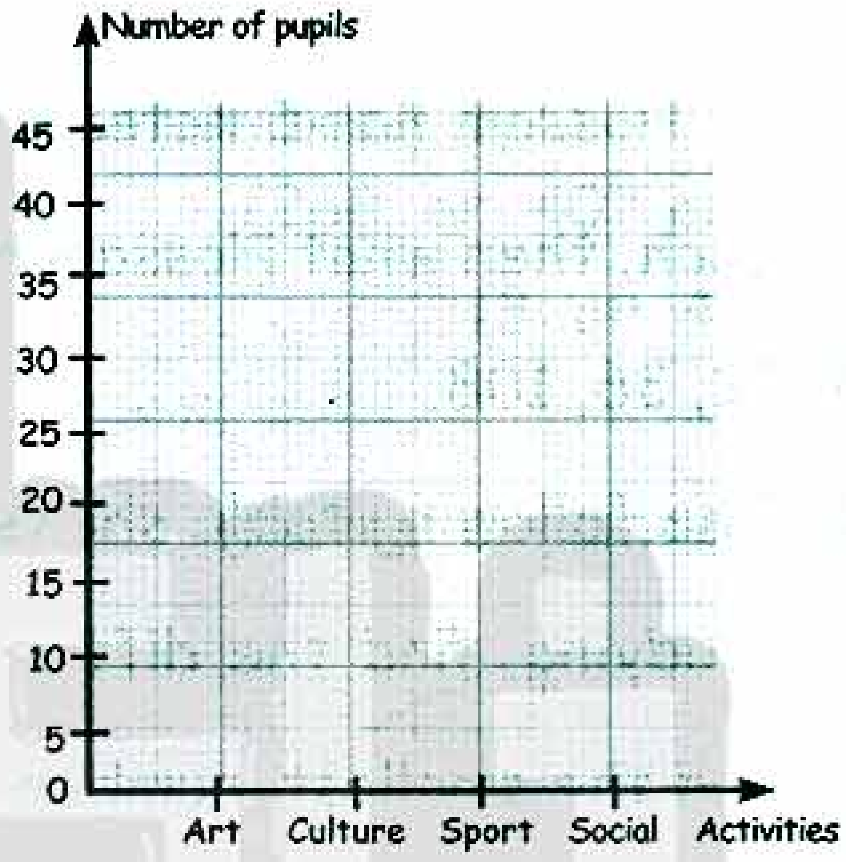
3 A man distributed 963 pounds among his three sons equally, what is the share of each one?

The share of each one = ... pounds.

4 The following table represents the number of pupils who participated in same school activities.

Represent these data by a broken line.

Activities	Art	Culture	Sport	Social
Number	25	15	35	10



Model 3

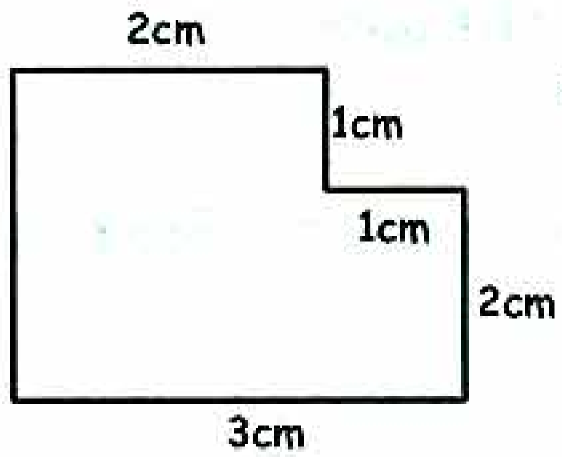
1 Choose the correct answer:

1 $\frac{5}{8} = \frac{.....}{24}$ (13 or 14 or 15)

2 Getting a tail when tossing a coin once is a/an .... event.

(sure or possible or impossible)

3 The perimeter of the opposite figure



= .... cm

(6 or 9 or 12)

4 20 × .... = 200 (1 or 10 or 100)

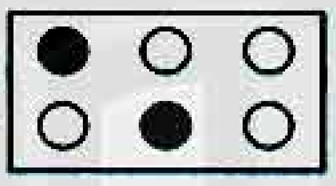
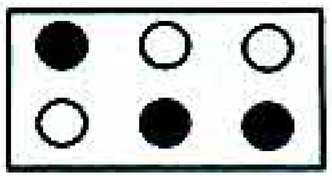
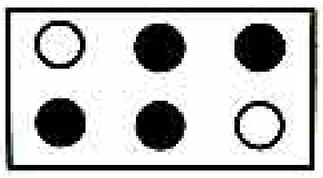
5 Four sixths .... $\frac{1}{6} + \frac{5}{6}$ (< or = or >)

6 A year and $\frac{1}{4}$ year = ... months (12 or 14 or 15)

7 The temperature of the human being is measured in ....

(meter or thermometer or cm)

8 In which figure the coloured circles represent $\frac{1}{2}$ the figure?

( or  or )

9 Complete by using the suitable sign 154 .... 100 = 15400

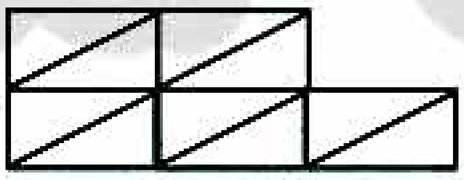
(+ or × or ÷)

10 The number that if multiplied by 5 the result is 255 is ....

(5 or 51 or 15)

11 A case has 10 symmetric balls, 5 are red and the rest are white, then the probability of drawing a ball that is white is .... ($\frac{1}{4}$ or $\frac{1}{3}$ or $\frac{1}{2}$)

12 5 tens + ... = 51. (1 or 10 or 100)

13 The area of the figures  = ... ▭ (5 or 10 or 2)

14 A teacher bought 402 notebooks to distribute among the pupils the price of each one is 4 pounds to count the total price we need to carry out a / an .... operation.

(adding or multiplication or division)

15 Which of the following numbers represents an odd number?

(6 ten + 6 or 125 × 5 or 306 ÷ 3)

16 A man distributed 603 pounds among his three sons equally, then the

share of each one = ... pounds. (101 or 102 or 201)

17 The fraction that if added to $\frac{5}{7}$ the result is one is ....

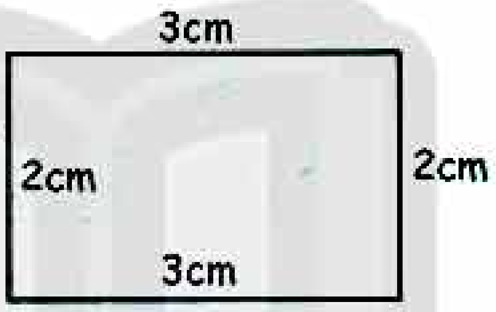
($\frac{1}{7}$ or $\frac{2}{7}$ or $\frac{7}{7}$)

18 Tell the time ....



($\frac{1}{4}$ past 7 or 35 past three or seven)

19 The perimeter of this figure



= .... cm.

(6 or 9 or 10)

2 Complete each of the following:

1 The ascending order of the fractions $\frac{1}{8}$, $\frac{7}{8}$, $\frac{5}{8}$, $\frac{3}{8}$ is ...., ... and ....

2 If the sides lengths of a triangle are 5 cm, 5 cm and 7 cm, then its perimeter = ... cm

3 The number that if divided by 6 the result is 3 is ....

4 6, 12, 24, ..., ..., ...

5 2000 gm = ... kg

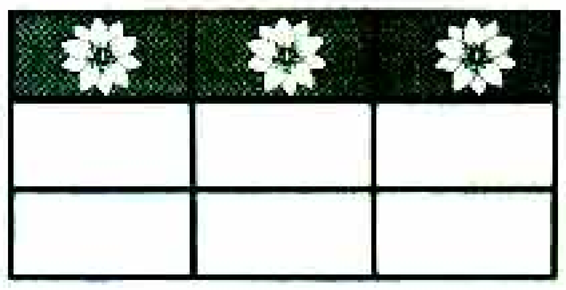
6 If the temperature degrees for one city in five consecutive days is as follows.

Day	Sat.	Sun.	Mon.	Tue.	Wed.	Thur.
Temperature Degrees	30°	29°	32°	39°	36°	31°

Then the hottest day is ....

7 From the following 6374, 8651, 4205, 1352 the odd numbers are ...., ...

8 A piece of land is divided into 9 equal parts and in 3 parts of them are cultivated with red flowers, then the fraction which represents the red flowers with respect to the land = $\frac{.....}{.....}$



8 2154 × 3 = ...

3 Answer the following questions:

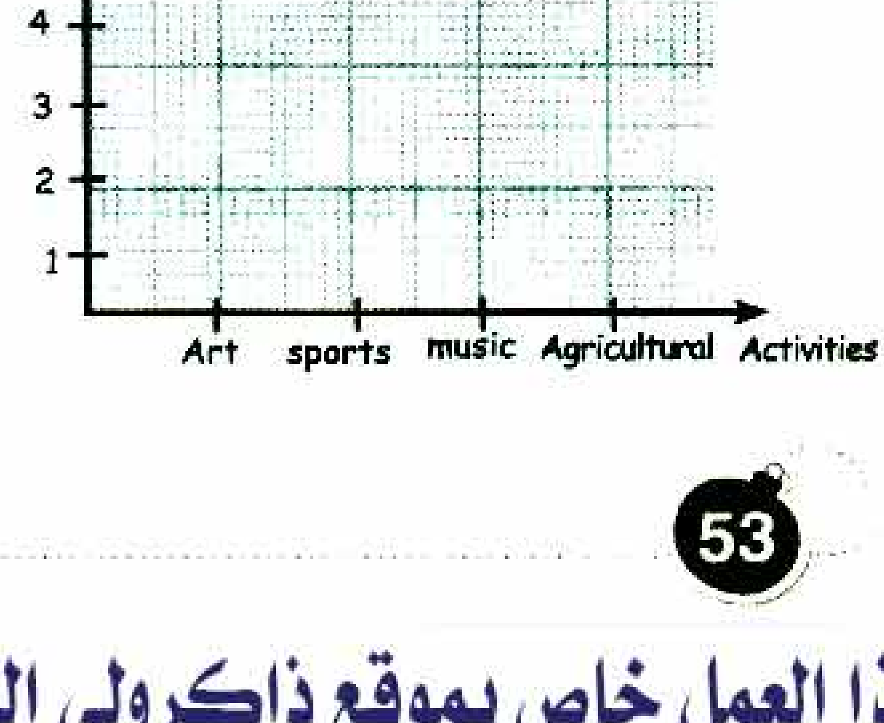
1 Samira has 20 notes of 100 pounds each and 3 notes of L.E. 200 pounds each. Find the sum which Samira has now:

2 Arrange in descending order
Month, 24 days, 24 hours
The order is: ...., ..., ...

3 Salwa bought 6 bags, the price of each bag is 175 pounds, what did she pay?
She paid = ... = ... pounds

4 The following table represents the number of pupils who participate in the school activities.
Represent these data by a broken line.

Activities	Art	Sports	Music	Agricultural
Number of pupils	5	8	10	3



Final Examinations of the Second Term 2015 / 2016

1 Cairo Governorate - El Sayeda Zeinab Directorate

1 Complete the following:

a One year and three months = ... months.

b Six fifths = $\frac{......}{......}$

c The perimeter of square whose side length is 3 cm is ....

d The smallest odd number is ....

e 12 kg = ... gm

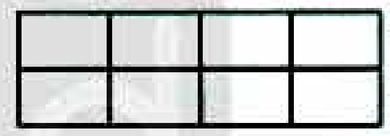
f 1 hour and half = ... minutes.

g 3 m = ... cm.

h 48 ÷ 2 = ... × 6

i The probability of the certain event = ...

j The area of the opposite figure = ... □



2 Choose the correct answer:

a .... is one of the units used in measuring weights.

[**kilometer** or **hour** or **kilogram**]

b Two sevenths + three sevenths = ... [$\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{3}{7}$]

c 8000 m = ... km. [8 or 80 or 800]

d The normal temperature of the human body is .... C.

[36° or 37° or 38°]

e Half kilogram = ... gram. [700 or 200 or 500]

f $\frac{2}{8}$ ☐ $\frac{5}{8}$ [> or < or =]

g The probability that the cow is flying is ....

[certain or possible or impossible]

h $\frac{5}{8} = \frac{....}{64}$ [10 or 25 or 40]

i 225 × 5 ☐ 225 ÷ 5 [> or < or =]

j 2 × 5 × 10 = ... tens. [10 or 100 or 1000]

k $2\frac{1}{2}$ km .... m. [2000 or 2500 or 2250]

l 4 hours = ... minutes. [60 or 180 or 240]

m The length of pen is measured in .... [kg or gm or cm]

n .... is an odd number. [1220 or 2554 or 9663]

o 3 weeks = ... days. [7 or 21 or 14]

p 6 m = ... cm. [6 or 60 or 600]

q 5 tenths ☐ 5 tens. [> or < or =]

r As tossing a metallic coin once and observing the upper face, the probability of appearing of a head = ... [$\frac{1}{2}$ or 0 or 1]

s $\frac{12}{9} - \frac{3}{9}$ = ... [0 or 1 or 2]

t Ahmed's father distributed 200 pounds equally among his 4 sons in the occasion of feast. What is the share of each son? ..... .

[40 or 60 or 50]

2 Cairo Governorate - Helwan Educational Zone - Saint Mary Lang. School

1 Choose the correct answer:

a 9003 ÷ 3 = ... [303 or 3001 or 301 or 3100]

b .... is an even number. [133 or 187 or 245 or 110]

c The probability of the impossible event is ....

[1 or 0 or 2 or 3]

d Six fifths = ... [$\frac{6}{5}$ or $\frac{6}{15}$ or $\frac{5}{6}$ or $\frac{5}{16}$]

e The perimeter of the square whose side length is 10 cm = ... cm. [30 or 40 or 50 or 20]

f $\frac{2}{5} = \frac{8}{....}$ [10 or 20 or 15 or 25]

g 4 weeks = ... days. [14 or 21 or 28 or 35]

h 50 meters = ... cm. [500 or 50 or 5500 or 5000]

i $\frac{4}{9}$ + ... = $\frac{7}{9}$ [$\frac{3}{9}$ or $\frac{1}{9}$ or $\frac{11}{9}$ or $\frac{3}{19}$]

j 5600 gm ☐ 56 kg. [< or > or = or ≤]

k The normal temperature of the human body is .... C.

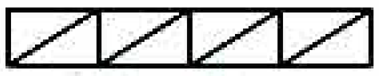
[70° or 37° or 47° or 35°]

l $\frac{7}{10}$ ☐ $\frac{5}{10}$ [< or > or = or ≤]

m 3 years = ... months. [12 or 24 or 36 or 48]

n 8420 ÷ 2 = ... [4210 or 4021 or 2420 or 1240]

o 56 kg and 23 gm = ... gm. [5 623 or 56 023 or 56 230 or 2 356]

p The area of this figure  is .... .

[3 or 12 or 6 or 8]

q One day and 3 hours = ... hours. [25 or 27 or 19 or 30]

r When tossing a coin once, then the probability of appearance of a head is .... [1 or 0 or 2 or $\frac{1}{2}$]

s .... is one of the length measurement units.

[gm or min or m or kg]

2 Complete:

a 5 kg and 125 gm = ... gm.

b 12 km = ... meters.

c $1 - \frac{3}{8} =$ ....

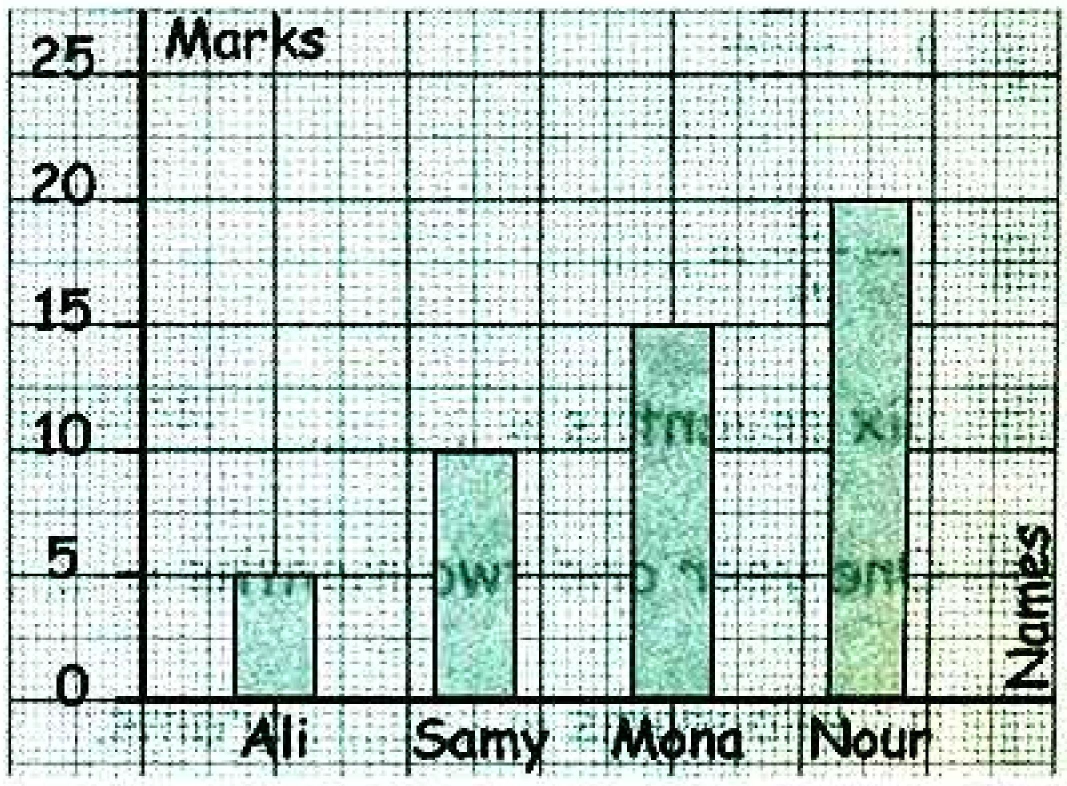
d If the sides of a triangle are 3 cm, 5 cm and 4 cm, then its perimeter = ... cm.

e Five eighths = $\frac{......}{......}$

f 2 hours and 30 minutes = ... minutes.

g Using the following figure, complete the table:

Name	Marks
Ali	5
Samy	....
Mona	....
Nour	20



3 Answer the following:

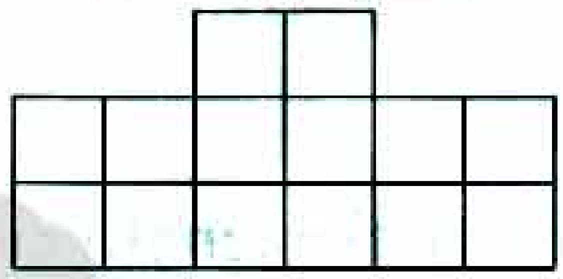
a A man distributed 693 pounds among his three sons equally. Find the share of each of them.

The share of each son = ... = ... pounds.

b Find the area and the perimeter of the following figure:

The area = ... □

The perimeter = ... units.



3 Cairo Governorate - El Nozha Educational Directorate

1 Choose the correct answer:

a There are .... halves in whole one. [1 or 2 or 3]

b $\frac{3}{5}$ ☐ $\frac{1}{5}$ [$<$ or $=$ or $>$]

c The greatest fraction is .... [$\frac{4}{5}$ or $\frac{1}{5}$ or $\frac{3}{5}$]

d The number .... is an even number. [275 or 572 or 527]

e $\frac{3}{5} - \frac{1}{5}$ ☐ $\frac{1}{5} + \frac{1}{5}$ [$<$ or $=$ or $>$]

f $2 = \frac{4}{....}$ [2 or 4 or 8]

g $1 - \frac{3}{4} =$ .... [$1\frac{3}{4}$ or $\frac{1}{4}$ or $\frac{3}{4}$]

h Six sevenths = ... [67 or $\frac{7}{6}$ or $\frac{6}{7}$]

i One year and two months = ... months. [12 or 14 or 24]

j 57 kilograms = ... grams. [570 or 5 700 or 57 000]

k The normal temperature of the human body = ...

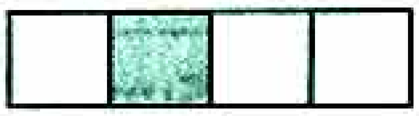
[**35°** or **37°** or **42°**]

l The distance between Cairo and Alexandria = ...

[**cm** or **m** or **km**]

m It is .... that the elephant flies.

[**impossible** or **possible** or **certain**]

n The fraction that represents the colored part  = ...

[$\frac{1}{3}$ or $\frac{1}{4}$ or $\frac{3}{4}$]

2 Complete the following:

a 100 minutes = ... hour and .... minutes.

b The perimeter of a square whose side length is 2 cm is .... cm.

c $\frac{3}{7} + \frac{\cdots}{\cdots} = \frac{5}{7}$

d 2 weeks = ... days.

e The probability of the appearance of a head when throwing a fair coin once is ....

f $\frac{9}{27} = \frac{1}{\cdots}$

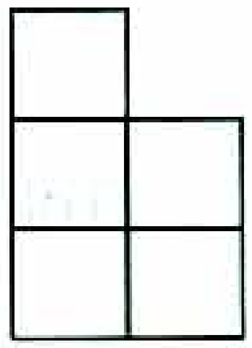
g 17 kilometers = ... meters.

h 4 kilograms and 150 grams = ... grams.

i .... $- \frac{4}{9} = \frac{3}{9}$

j The day = ... hours.

3 **Using the figure below, find:**



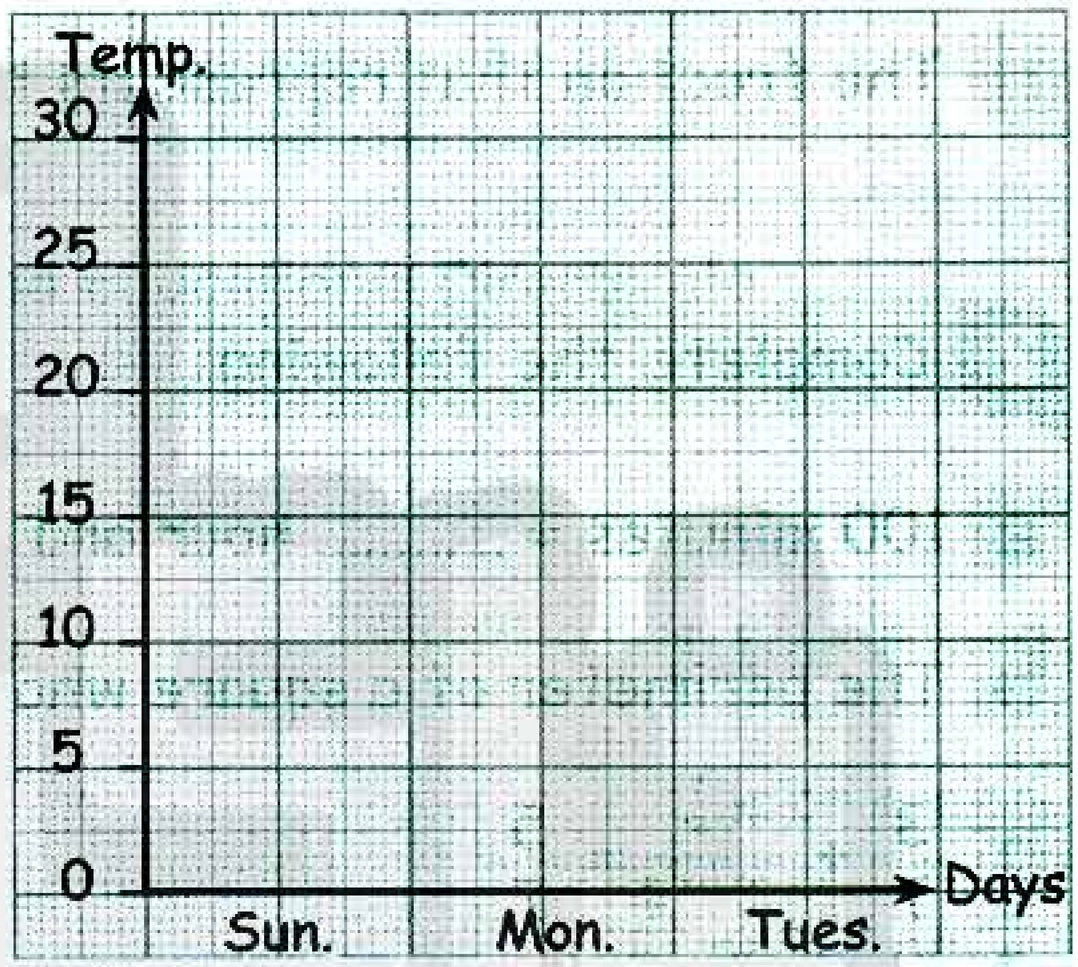
a The perimeter of the figure = ... length units.

b The area of the figure = ... square units.

4 **The following table shows the degrees of temperature for 3 days:**

Days	Sun.	Mon.	Tues.
Degrees of temperature	25	20	30

Represent these data by a broken line



4 Cairo Governorate - Mathematics Supervision for Gov. & Distinguished L. Schools

1 **Choose the correct answer:**

a The odd number is .... [**247** or **250** or **354** or **982**]

b $963 \div 3 =$ .... [**311** or **321** or **332** or **389**]

c $1 - \frac{1}{4} =$ .... [**quarter** or **half** or **three quarters** or **one**]

d $\frac{3}{4} = \frac{....}{16}$ [**4** or **9** or **12** or **15**]

e The normal temperature of the human body is .... °c.

[35 or 36 or 37 or 38]

f If a coin is tossed once, then the probability of getting a tail = ...

[0 or $\frac{1}{4}$ or $\frac{1}{2}$ or 1]

g $36 \div$ .... $> 36 \div 6$ [36 or 9 or 6 or 4]

h The perimeter of a square of side length 4 cm is .... cm.

[16 or 20 or 25 or 30]

i $\frac{5}{10}$ ☐ $\frac{1}{3}$ [$<$ or $=$ or $>$ or $\leq$]

2 Choose the correct answer:

a Three fifths = ... [$\frac{5}{3}$ or $\frac{3}{5}$ or 35 or 53]

b 5 tens $\div$ 5 = ... [10 or 20 or 30 or 40]

c 20 m = ... cm. [2 or 20 or 200 or 2 000]

d $8 \div$ .... $= 1$ [80 or 64 or 8 or 1]

e $\frac{3}{5} - \frac{1}{5}$ ☐ $\frac{2}{5} + \frac{1}{5}$ [$<$ or $=$ or $>$ or $\leq$]

f $55 \div$ .... $= 11$ [5 or 6 or 7 or 8]

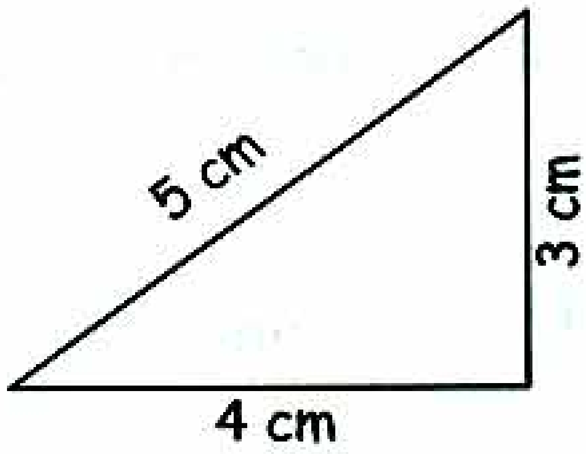
g Half an hour = ... minutes. [30 or 40 or 60 or 120]

h The probability that the sun rises from the west is a/an .... event.

[**certain** or **possible** or **impossible** or **one**]

i $\frac{5}{13} >$ .... [$\frac{7}{13}$ or $\frac{6}{13}$ or $\frac{5}{13}$ or $\frac{3}{13}$]

3 Complete the following:



a The perimeter of the opposite figure = ... cm.

b (5 + 9) ÷ 7 = ...

c 40 , 42 , 44 , ... (in the same pattern)

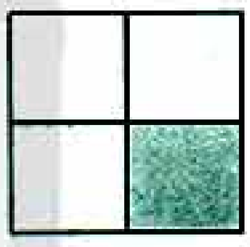
d 3604 ÷ 4 = ...

e A bag contains 10 balls, 3 are red and 7 are white, if a ball is drawn at random, then the probability that the drawn ball is white = $\frac{......}{......}$.

f $\frac{4}{7}$ + ... = 1

g The probability of the certain event = ...

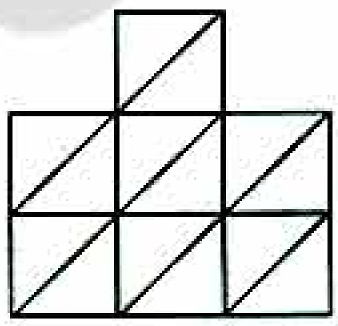
h In the opposite figure. The fraction that represents the shaded part is: $\frac{......}{......}$.

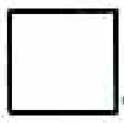


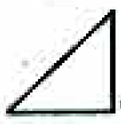
4

a From the fractions: $\frac{5}{11}$, $\frac{7}{11}$, $\frac{3}{11}$, $\frac{2}{11}$, the greatest fraction is .... and the smallest fraction is ....

b From the opposite figure:



1) The area of the figure = ... .

2) The area of the figure = ... .

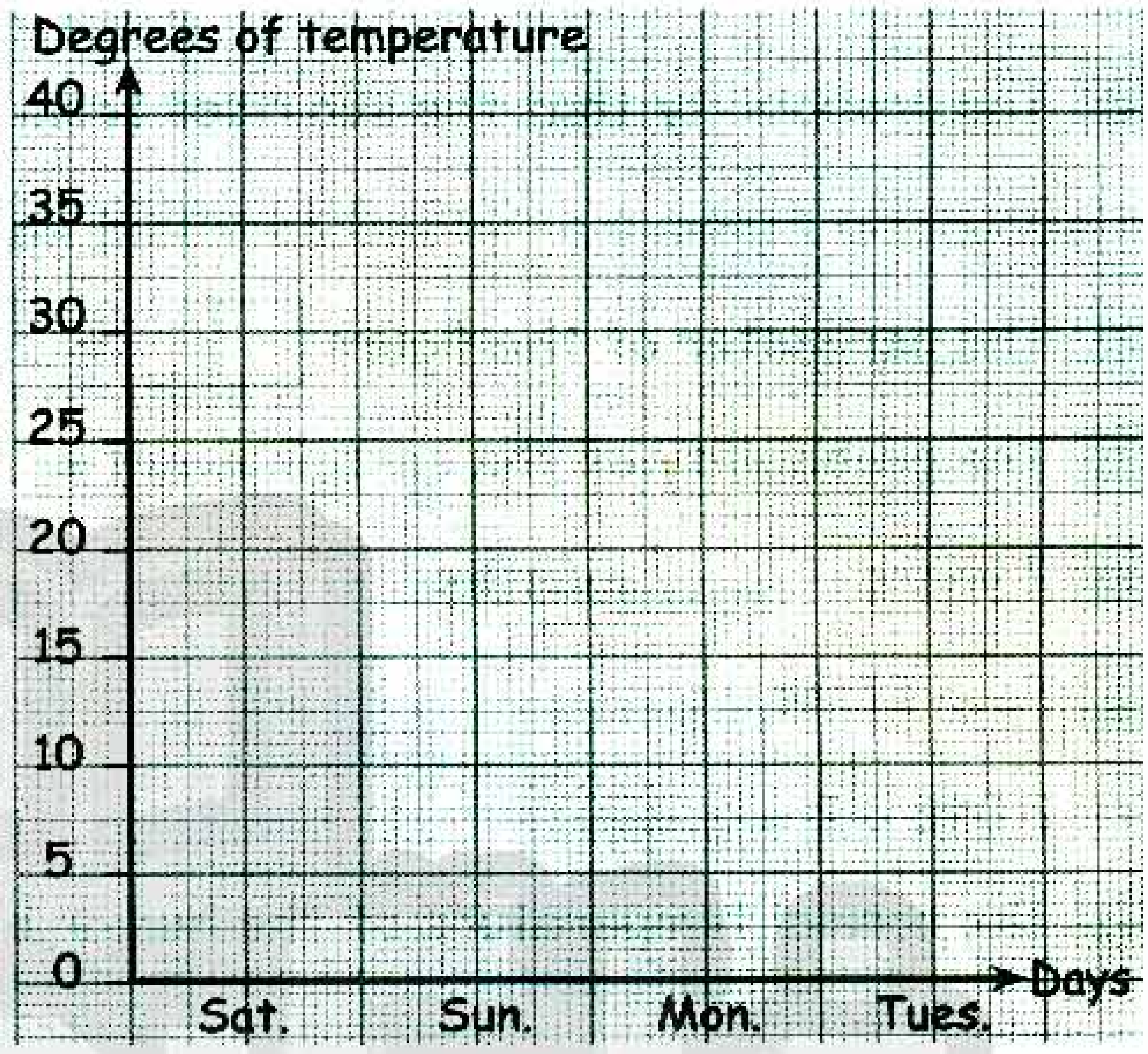
5

a A man distributed L.E. 8 040 between his 2 sons equally. Find the share of each one.

The share of each one = ... ÷ .... = L.E. ....

b The following table shows the degrees of temperature recorded in four consecutive days:

Day	Temperature
Saturday	35
Sunday	25
Monday	30
Tuesday	35



Represent the data in this table by a bar line graph.

5 Cairo Governorate - Mathematics Supervision for Governmental L. Schools

1 Complete the following:

a 303 ÷ 3 = ...

b $\frac{1}{5} + \frac{3}{5} =$ ....

c 5 kilometers = ... meters.

d The probability of the impossible event = ...

e 45 ÷ 5 = ...

f The perimeter of a square whose side length is 3 cm = ... cm.

g 5 , 10 , 15 , ... in the same pattern.

h An hour = ... minutes.

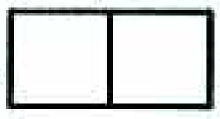
i $1 - \frac{7}{9} =$ ....

2 Choose the correct answer:

a .... is an even number. [123 or 124 or 125]

b The probability that the sun rises from the east is a/an ..... event.

[**impossible** or **possible** or **certain**]

c The perimeter of the figure  = ... units. [2 or 4 or 6]

d The probability of the certain event = ... [0 or $\frac{1}{2}$ or 1]

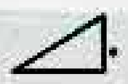
e 2 years = ... months. [12 or 42 or 24]

f Four fifths = ... [$\frac{5}{4}$ or 45 or $\frac{4}{5}$]

g 2 046 ÷ 2 = ... [2 023 or 1 023 or 1 203]

h The normal temperature of the human body is .... c.

[40° or 37° or 35°]

i The area of the shape  = ... . [3 or 5 or 6]

3 Complete the following:

a 25 meters = ... cm.

b 921 ÷ 3 = ...

c $\frac{1}{3}$ + ... = 1.

d 30 hours = one day + ... hours.

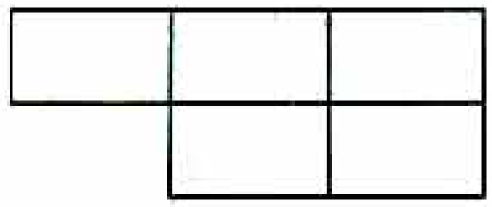
e $\frac{20}{25} = \frac{....}{5}$

f .... ÷ 3 = 4

g The perimeter of the triangle whose side lengths are 5 cm, 5 cm and 7 cm = ... cm.

h 24 ÷ 6 = ...

4 In the figure below, find:



a The perimeter = ... length units.

b The area = ... $\square$.

5

a If a father distributed L.E. 360 in a month among his 3 sons equally, then

the share of each one of them = ... ÷ .... = ...

= L.E. ....

b Arrange the following fractions in ascending order:

$$\frac{2}{5}, \frac{4}{5}, \frac{1}{5} \text{ and } \frac{3}{5}$$

The order: .... , ... , ... and ....

6 Cairo Governorate - Rod El-Farag Educational Directorate

1 Choose the correct answer:

a 7 000 gm = ... kg. [7 or 70 or 700]

b $1 - \frac{4}{5}$ $\square$ $\frac{1}{5}$ [< or > or =]

c Half km = ... m. [250 or 750 or 500]

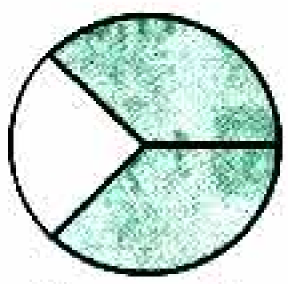
d The instrument that is used in measuring temperature is ....

[scale or clock or thermometer]

e $\frac{5}{6}$ $\square$ four sixths. [< or > or =]

f $\frac{1}{7} + \frac{3}{7}$ $\square$ 1 [> or = or <]

g The fraction which represents the shaded part to the whole shape is ....



[$\frac{1}{3}$ or $\frac{2}{3}$ or $\frac{1}{2}$]

h As tossing a metallic coin once the probability of the appearance of a head is .... [$\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{4}$]

i 30 m = ... cm. [3 000 or 300 or 30]

j The probability of the certain event is .... [1 or 0 or 3]

k 11 000 m ☐ 11 km [$<$ or $>$ or $=$]

l The probability that the sun rains gold is a/an .... event.

[**possible** or **impossible** or **certain**]

m The unit used in measuring jewellery weight is ..... . [**kg** or **cm** or **gm**]

n 8 m ☐ 80 cm [$=$ or $>$ or $<$]

o 24 hours = ... day. [2 or 1 or 3]

2 Complete the following:

a 6 120 ÷ 3 = ...

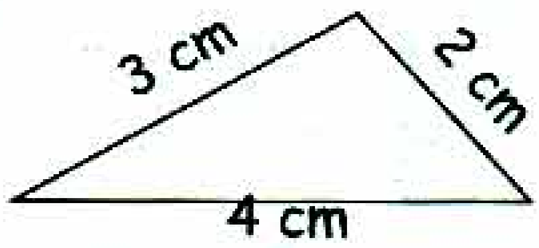
b $\frac{4}{5} = \frac{20}{....}$

c The normal temperature of the human body is .... °c.

d The even number which is less than 2 is ....

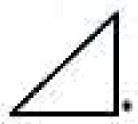
e 4 381 m = ... km + ... m.

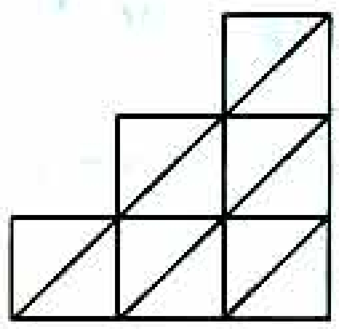
f The perimeter of the opposite shape is ...... cm.



g The smallest odd number is ....

h 1 year and 6 months = ... months.

i The area of the opposite figure is .... .



3 **a** If you have a basket that contains 10 balls, and those balls are classified as 5 white balls, 3 black balls and 2 red balls.

Then the probability of choosing ball that is:

1) red = ...

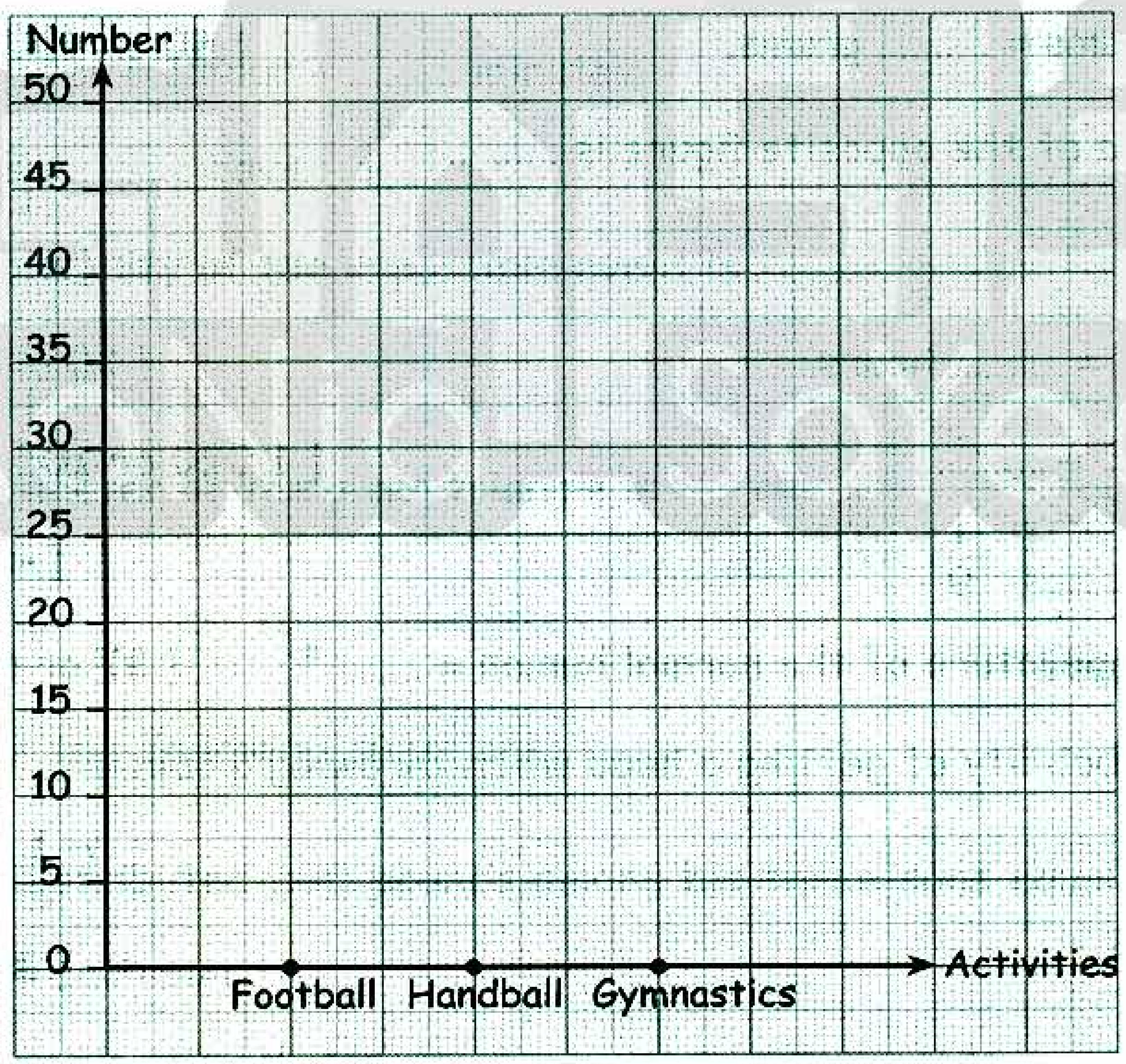
2) black or white = ...

3) not black = ...

b The following table shows the number of pupils participating in sport activities.

Represent these data by bar charts:

Activities	Football	Handball	Gymnastics
Number of pupils	50	30	25



7 Cairo Governorate - Heliopolis Educational Zone - St. Joseph's School

1 Choose the correct answer:

a Two thirds = ... [23 or $\frac{2}{3}$ or $\frac{3}{2}$]

b The number .... is an odd number. [312 or 300 or 245]

c $\frac{3}{4}$ ☐ 1 [$<$ or $>$ or $=$]

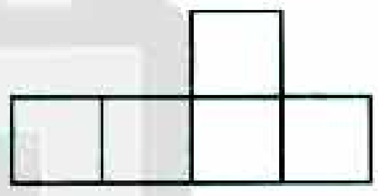
d The perimeter of the square whose side length is 5 cm is ....

[10 or 20 or 25]

e $\frac{2}{9}$ + ... = 1 [$\frac{1}{9}$ or $\frac{7}{9}$ or 7]

f 4 kilograms = ... grams. [40 or 400 or 4 000]

g The area of the opposite figure is .... ☐.



[4 or 5 or 13]

h The day = ... hours. [10 or 24 or 60]

i 2010 ÷ 2 = ... [1 020 or 105 or 1 005]

j $\frac{1}{3}$ ☐ $\frac{1}{9}$ [$<$ or $>$ or $=$]

k The temperature of the normal human = ... °. [37 or 60 or 100]

l The probability of getting a head when throwing a coin is ....

[$\frac{1}{2}$ or 1 or 2]

m $\frac{12}{20} = \frac{3}{....}$ [3 or 4 or 5]

n 2 000 cm = ... m. [20 or 2 or 200 000]

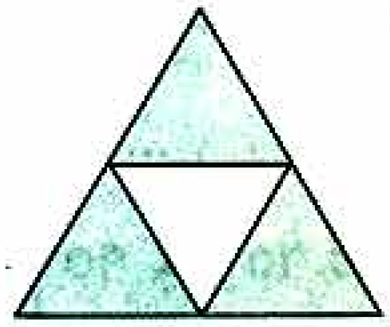
o .... ÷ 3 = 6 [2 or 12 or 18]

p The unit of measuring weight is .... [hour or km or kg]

q $\frac{1}{7} + \frac{2}{7}$ = ... [$\frac{3}{14}$ or $\frac{3}{7}$ or $\frac{2}{7}$]

r 609 ÷ .... = 203 [3 or 33 or 333]

s The fraction that represents the shaded part in relation to the whole shape is .... [$\frac{3}{4}$ or $\frac{1}{4}$ or $\frac{3}{5}$]



2 Complete the following:

a $\frac{12}{18}$ = ... (in the simplest form)

b The number of quarters in one whole is ....

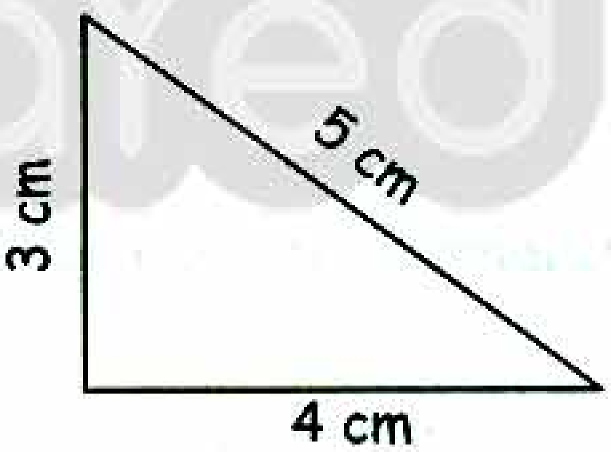
c 100 minutes = 1 hour + ... minutes.

d 3 weeks = ... days.

e The probability of the impossible event is ....

f $\frac{3}{11} + \frac{5}{11}$ = ...

g The perimeter of the given triangle is ...... cm.



3 Answer the following questions:

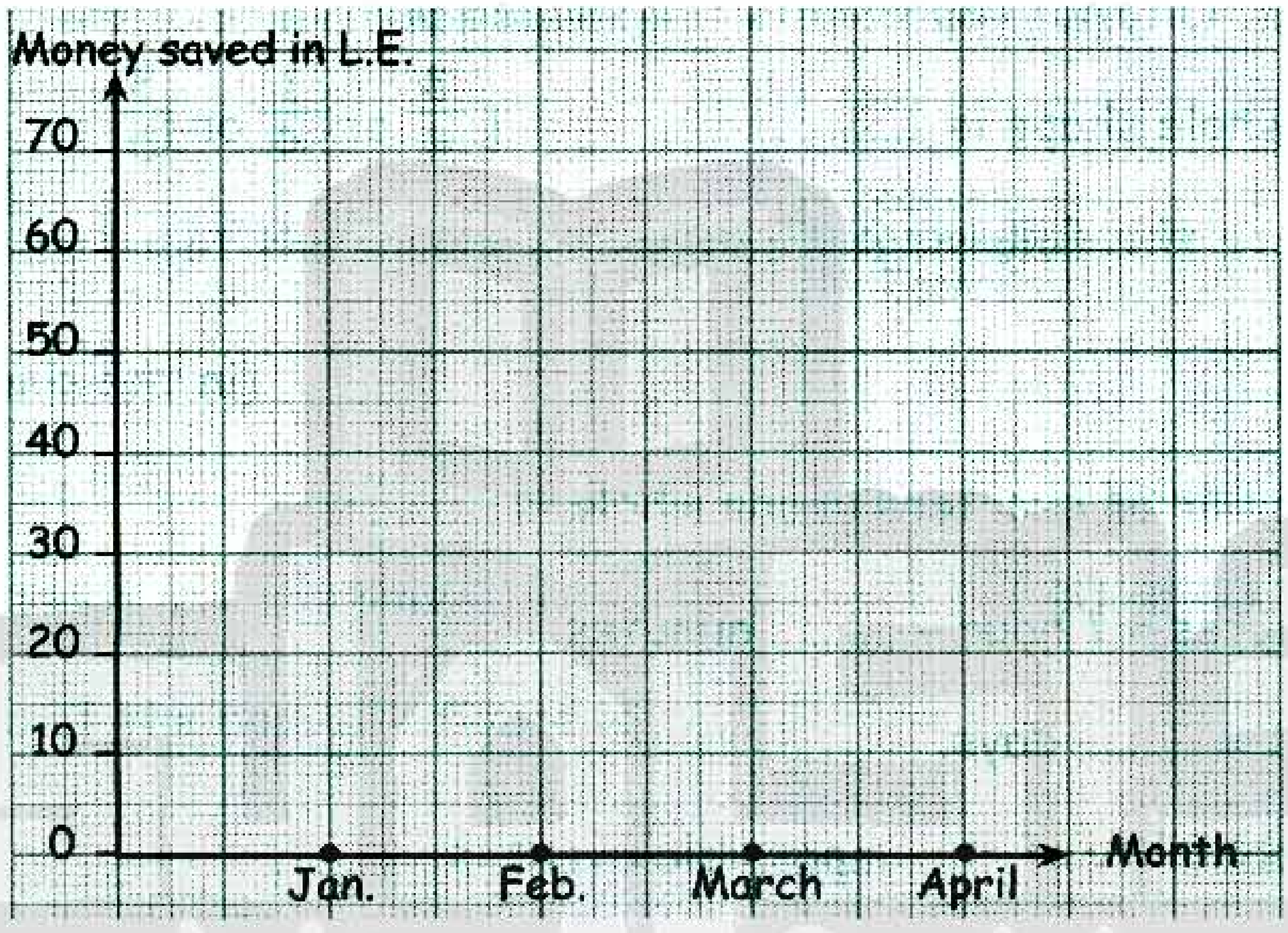
a A man distributed 690 pounds among his three sons equally. Find the share of each son.

- The share of each son = ... = ... pounds.

b The following table represents the money Sara saved in 4 months:

Month	January	February	March	April
Money saved in L.E.	30	70	50	20

Represent these data by a broken line graph.



8 Cairo Governorate - Nasr City Educational Directorate "East"

1 Choose the correct answer:

a 606 ÷ 6 = ... [11 or 101 or 110]

b 4 kilograms = ... grams. [4 000 or 400 or 40]

c Two weeks and 3 days = ... days. [14 or 15 or 17]

d The normal temperature degree of the human body is .... C.

[73° or 37° or 307°]

e The perimeter of a square whose side length is 5 cm is .... cm.

[15 or 20 or 25]

f The hour = ... minutes. [60 or 70 or 80]

g Two thirds = ... [$\frac{2}{3}$ or 2 or $\frac{3}{2}$]

h Which of these numbers is an even one? .... . [341 or 205 or 192]

i The number of odd numbers between 20 and 30 equals ....

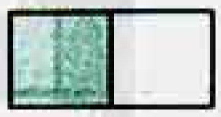
[5 or 11 or 6]

j $\frac{3}{9}$ ☐ $\frac{5}{9}$ [< or > or =]

k It is .... that the sun rises from the west.

[**certain** or **possible** or **impossible**]

l 3 meters = ... cm. [30 or 300 or 3 000]

m The fraction represented by the shaded part  is .... .

[$\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{2}{3}$]

n 3 years = ... months. [12 or 24 or 36]

o .... is used in measuring weight. [**kg** or **m** or **cm**]

2 Complete the following:

a 3 500 gm = ... kg , ... gm.

b $\frac{1}{5} + \frac{2}{5} =$ ....

c The probability of a certain event = ...

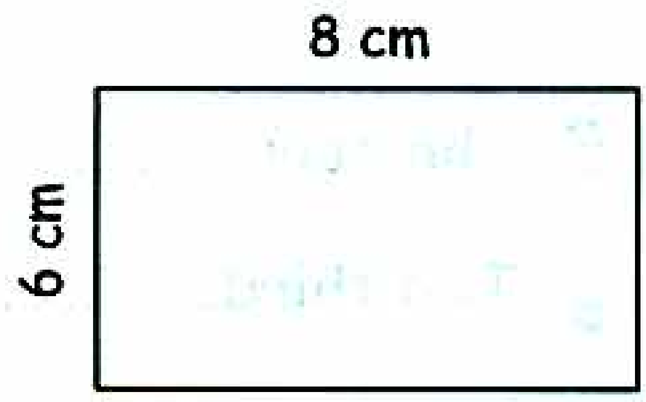
d The perimeter of a triangle whose side lengths are 4 , 5 and 8 centimeters is ....

e The even number less than 6 is ....

f One year and 5 months = ... months.

g $\frac{3}{7} - \frac{1}{7}$ = ...

h The perimeter of the opposite figure = ...



i 3 weeks = ... days.

3 **a** Find the result of the following:

1) 636 ÷ 3 = ...   2) 24 682 ÷ 2 = ...

b Arrange in ascending order:

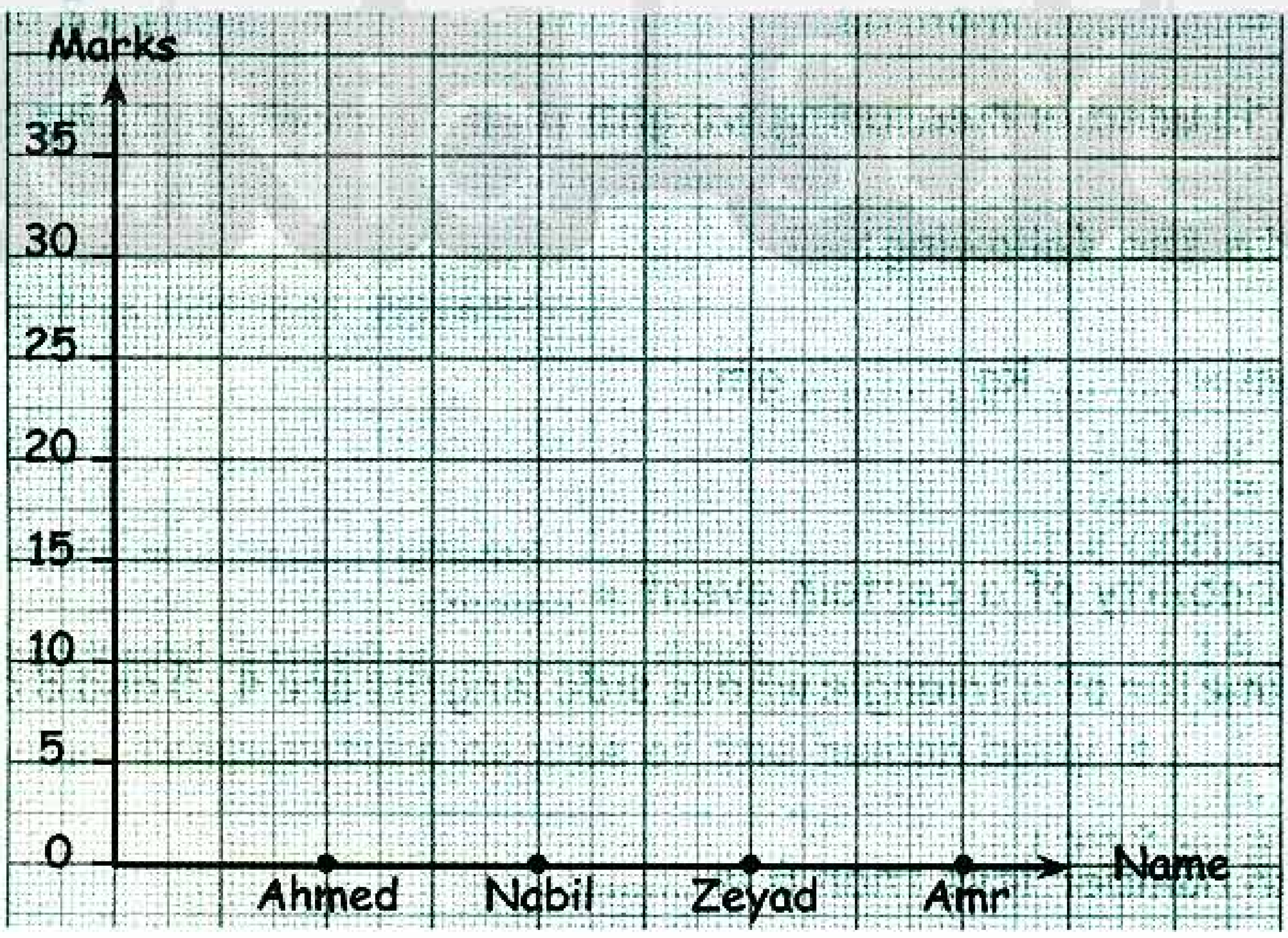
$$\frac{3}{10} , \frac{9}{10} , \frac{1}{10} , \frac{7}{10}$$

The order: .... , ... , ... , ...

c The following table shows the marks of some pupils in mathematics exam:

Name	Ahmed	Nabil	Zeyad	Amr
Marks	5	25	15	30

Represent these data by a broken line.



9 Cairo Governorate - El Sahel Zone - Shubra El Qumia School

1 Choose the correct answer:

a Three eighths = ... [$\frac{8}{3}$ or 56 or $\frac{3}{8}$]

b .... is an even number. [637 or 453 or 986]

c The perimeter of the triangle whose side lengths are 4 cm, 6 cm and 7 cm = ... cm. [17 or 10 or 24]

d 4 kg and 576 gm = ... gm. [4 000 or 4 576 or 40 576]

e 268 ÷ 2 = ... [234 or 130 or 134]

f $\frac{2}{5} + \frac{1}{5}$ = ... [$\frac{3}{5}$ or $\frac{3}{10}$ or $\frac{2}{5}$]

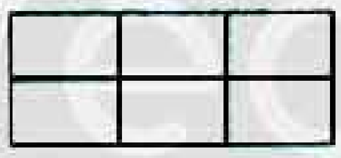
g 1 day = ... hours. [12 or 24 or 60]

h The normal temperature of the human body = ... °c. [37 or 40 or 35]

i $\frac{1}{8}$ ☐ $\frac{1}{10}$ [< or = or >]

j It is ...... that a cow is flying. [impossible or certain or possible]

k The perimeter of the opposite shape = ... units.



[6 or 8 or 10]

l When you flip a coin, the probability of getting a head = ... [$\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{4}$]

m 7 000 m = ... km. [700 or 70 or 7]

n 40 ÷ .... = 5 [8 or 7 or 6]

o 1 year and 2 months = ... months. [12 or 13 or 14]

p .... is an odd number. [3 152 or 300 or 125]

q The probability of an impossible event = ... [1 or 0 or $\frac{1}{2}$]

r 5050 ÷ 5 = ... [1 100 or 1 000 or 1 010]

s 1 week = ... days. [7 or 12 or 24]

2 Complete the following:

a The denominator of the fraction $\frac{5}{9}$ is ....

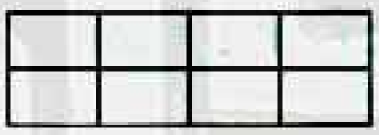
b 24 m = ... cm.

c $\frac{9}{11} - \frac{2}{11}$ = ...

d The probability of a certain event = ...

e The perimeter of a square whose side length is 5 cm = ... cm.

f $\frac{3}{4} = \frac{30}{....}$

g The area of the following shape  = ... ☐.

3

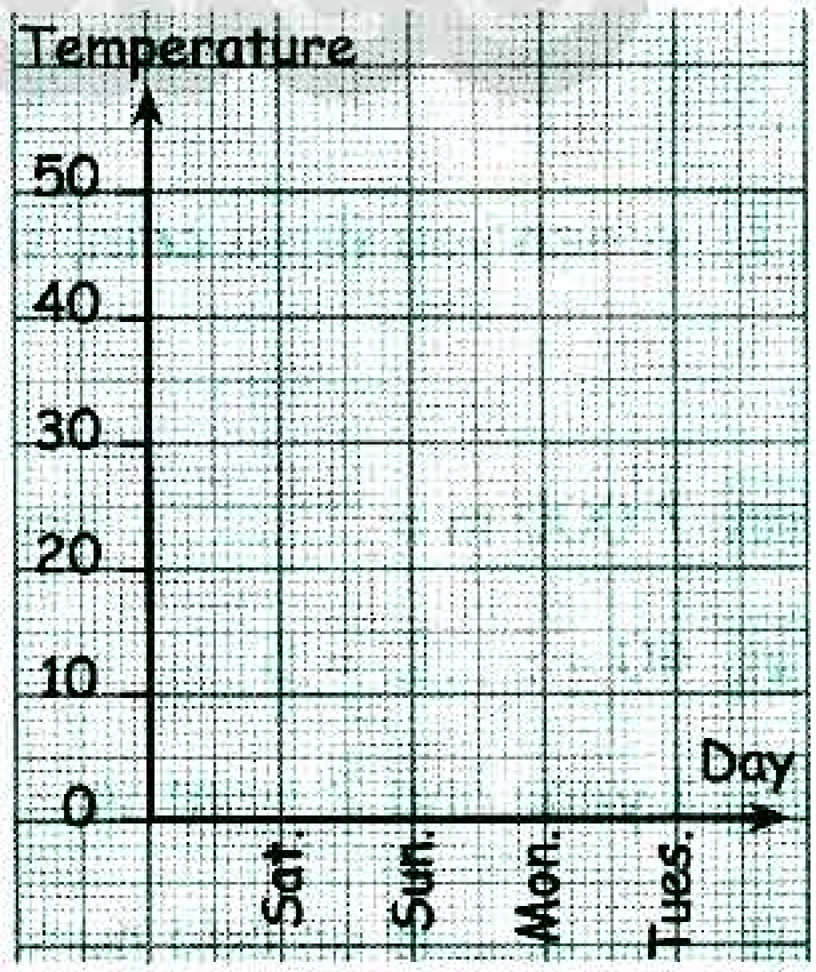
a Arrange in descending order: $\frac{1}{8}$, $\frac{7}{8}$, $\frac{5}{8}$, $\frac{3}{8}$, $\frac{4}{8}$

The order: ...... , ... , ... , ... , ...

b The following table shows the temperature degrees recorded in 4 days:

Day	Sat.	Sun.	Mon.	Tue.
Temp.	20	30	10	30

Represent these data by a broken line.



10 Giza Governorate - Maths Inspection

1 Choose the correct answer:

a .... is an even number. [10 or 15 or 19]

b $999 \div 9 =$ .... [101 or 111 or 100]

c .... is an odd number. [30 or 8 or 15]

d The perimeter of the square with side length 3 cm is ....

[9 cm or 12 cm or 27 cm]

e The area of this shape ☐☐☐ = ... ☐. [6 or 3 or 8]

f How many thirds are there in one whole? .... [4 or 3 or 1]

g The probability of seeing dinosaur in your school is ....

[certain or possible or impossible]

h $\frac{3}{4}$ ☐ $\frac{1}{4}$ [< or > or =]

i The length of a book is .... [25 cm or 1 m or 1 km]

j $\frac{3}{30} = \frac{1}{....}$ [10 or 20 or 30]

k $\frac{2}{8} + \frac{3}{8} =$ .... [$\frac{5}{8}$ or $\frac{5}{16}$ or $\frac{3}{8}$]

l The temperature at which water becomes ice is ....

[0 or 37 or 100]

m 15 kg = ... gm. [150 or 1 500 or 15 000]

n .... is one of the length measurement units. [gm or kg or m]

2 Complete the following:

a The smallest even number is ....

b 1 year = ... months.

c One fifth as a fraction is ....

d The probability that the sun rises from the west is ....

e The human body temperature is ....

f 1 week = ... days.

g $\frac{30}{40} = \frac{3}{....}$

h 48 hours = ... days.

i 450 ÷ 9 = ...

j 4 meters = ... cm.

k One day = ... hours.

l $\frac{7}{10} - \frac{5}{10} = \frac{......}{......}$.

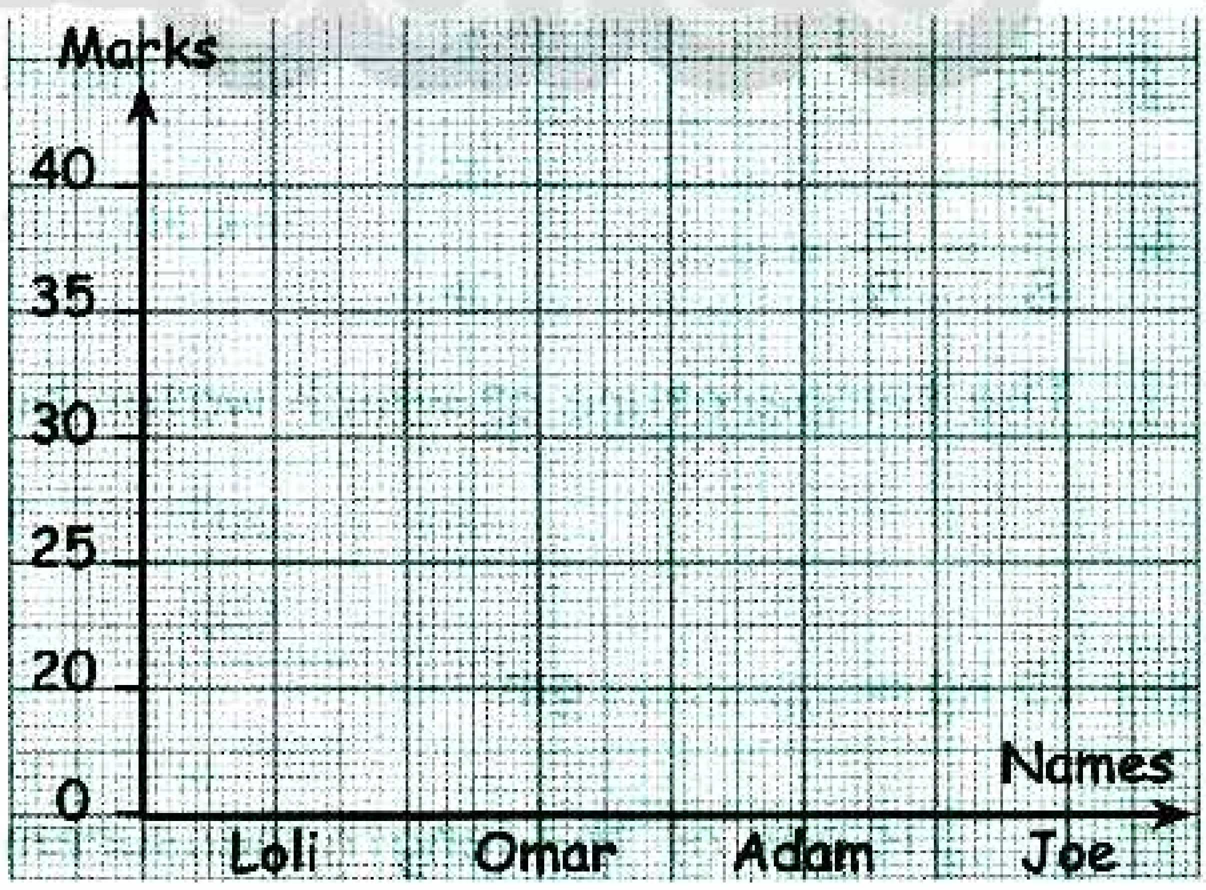
m The perimeter of the following figure ⊞ = ... unit.

n If Omar bought 5 toys for 2 pounds each, then the price of all the toys = ... pounds.

3

The following table shows the marks of a primary 3 class in maths, represent these data by a broken-line graph:

Names	Marks
Loli	30
Omar	40
Adam	25
Joe	20



11 Giza Governorate - El-Sheikh Zaid Directorate - Governmental Lang. School

1 Choose the correct answer:

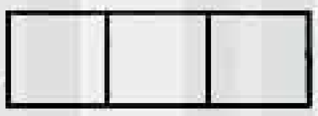
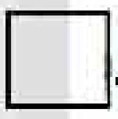
a) $18 \div \text{.........} = 9$ [2 or 3 or 6]

b) .... is from odd numbers. [2 or 15 or 14]

c) $505 \div 5 = \text{..............}$. [11 or 10 or 101]

d) $\text{............} \div 3 = 4$ [6 or 12 or 7]

e) The perimeter of the square whose side length is 5 cm = ... cm.
[10 or 20 or 15]

f) The area of the shape  = ... . [3 or 8 or 4]

g) The normal temperature of the human body = ...
[70° or 37° or 47°]

h) .... is one of the length measurement units.
[Gram or Meter or Hour]

i) $\frac{2}{4} = \frac{1}{....}$ [2 or 4 or 8]

j) $\frac{2}{7} + \frac{3}{7} = \frac{......}{......}$ [$\frac{6}{7}$ or $\frac{5}{7}$ or 1]

k) $\frac{1}{5} \; \square \; \frac{1}{2}$ [> or < or =]

l) The greatest fraction from the following $\frac{1}{10}$, $\frac{3}{10}$, $\frac{2}{10}$, $\frac{9}{10}$ is ... .
[$\frac{1}{10}$ or $\frac{9}{10}$ or $\frac{2}{10}$]

m) It is .... that the elephant flies.
[sure or possible or impossible]

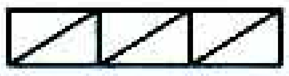
n) It is .... that the fish live in water.
[sure or possible or impossible]

2 Complete the following:

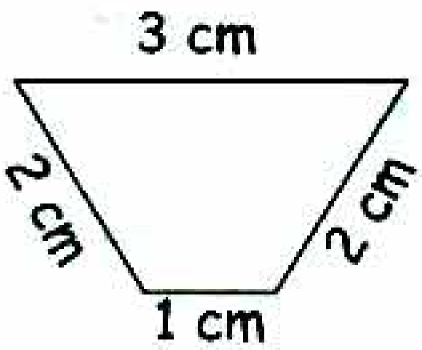
a .... is the smallest odd number.

b $963 \div 3 =$ ....

c $5 \overline{)40}$ (quotient: ......)

d The area of the shape  = ...  .

e The perimeter of the opposite figure = ...



f One year = ... months.

g One day and two hours = ... hours.

h $1 = \frac{....}{5}$.

i Two thirds is written as = $\frac{......}{......}$

j $\frac{5}{8} - \frac{2}{8} = \frac{......}{......}$

k When tossing a metallic coin once, then the probability of the appearance of a head is $\frac{......}{......}$.

l The probability that the sun rises from the east = ...

3 A father distributed 200 pounds equally among his 4 sons. What is the share of each son?

The share of each son = ... ÷ .... = ... pounds.

4 If the lengths of sides of a triangle are 10 cm, 8 cm and 6 cm, then find the perimeter of the triangle.

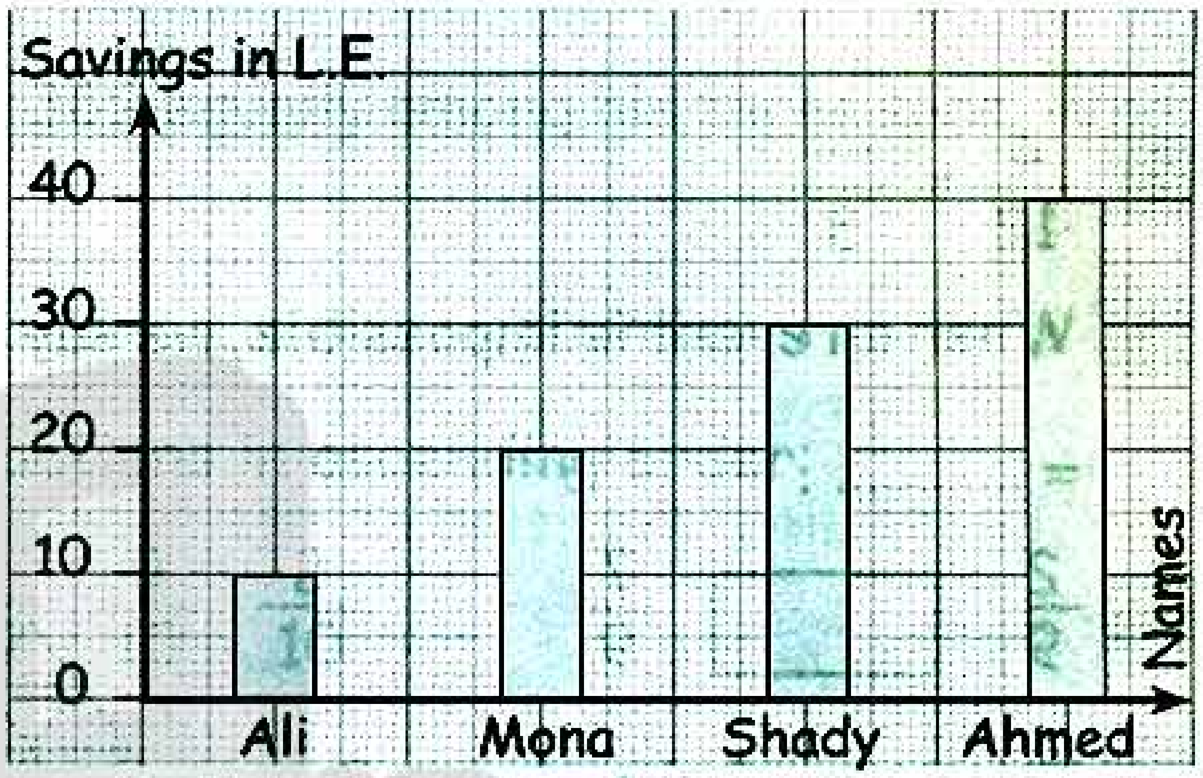
The perimeter of the triangle = ... + ... + ... = ... cm.

5 A box contains 5 balls, 2 balls are white and 3 balls are red. If a ball is drawn randomly, find the probability that the drawn ball is red.

The probability of red ball = $\frac{......}{......}$

6 From the graph complete the table:

Names	Savings in L.E.
Ali	10
Mona	....
Shady	30
Ahmed	....



12 Giza Governorate - Kerdasa Educational Zone

1 **Choose the correct answer:**

a The number .... is an even number. [**863** or **572** or **647**]

b 8 044 ÷ 4 = ... [**211** or **2 011** or **2 110**]

c One day and 6 hours = ... hours. [**24** or **30** or **36**]

d $\frac{2}{7} + \frac{3}{7} = \frac{......}{......}$ [$\frac{5}{14}$ or $\frac{5}{7}$ or $\frac{5}{49}$]

e It's .... that a cow is flying. [**sure** or **possible** or **impossible**]

f 18 ÷ 3 ☐ 6 + 6 [< or = or >]

g The day just after Friday is ....

[**Saturday** or **Sunday** or **Thursday**]

h Two thirds = $\frac{\dots\dots}{\dots\dots}$ [$\frac{3}{2}$ or $\frac{2}{3}$ or $\frac{4}{60}$]

i $\frac{36}{4}$ = ... [7 or 8 or 9]

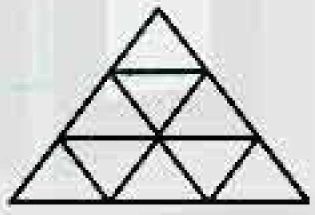
j The perimeter of the square of side length 9 cm = ... cm.

[18 or 36 or 81]

k $\frac{4}{12} = \frac{\dots}{3}$ [1 or 3 or 4]

l When an event is impossible, we say that the probability of its happening = ... [0 or 1 or $\frac{2}{3}$]

m $\frac{2}{9}$ ☐ $\frac{7}{9}$ [< or = or >]

n The area of the shown figure  = ... △. [7 or 8 or 9]

2 Complete the following:

a .... ÷ 8 = 4

b One year = ... months.

c $\frac{8}{9} - \frac{5}{9} = \frac{\dots\dots}{\dots\dots}$

d If we toss a coin, the probability of getting a tail = ...

e The odd number between 8 and 11 is ....

f The perimeter of a triangle of side length 6 cm, 8 cm and 10 cm is .... cm.

g $\frac{4}{12} = \frac{\dots\dots}{\dots\dots}$ (simplify)

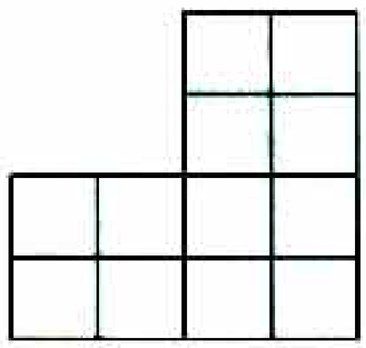
h The probability of getting the number 5 on the upper face of a dice when it is thrown is ....

i The normal temperature of the human body is .... °C.

j 2 kg = ... gm.

k $\frac{12}{15} = \frac{....}{5}$

l In the opposite figure:



the area = ... □.

3 **a** A father distributed L.E. 369 equally among his three sons. What is the share of each?

The share of each son = ... ÷ .... = ... pounds.

b Arrange the following fractions in ascending order:

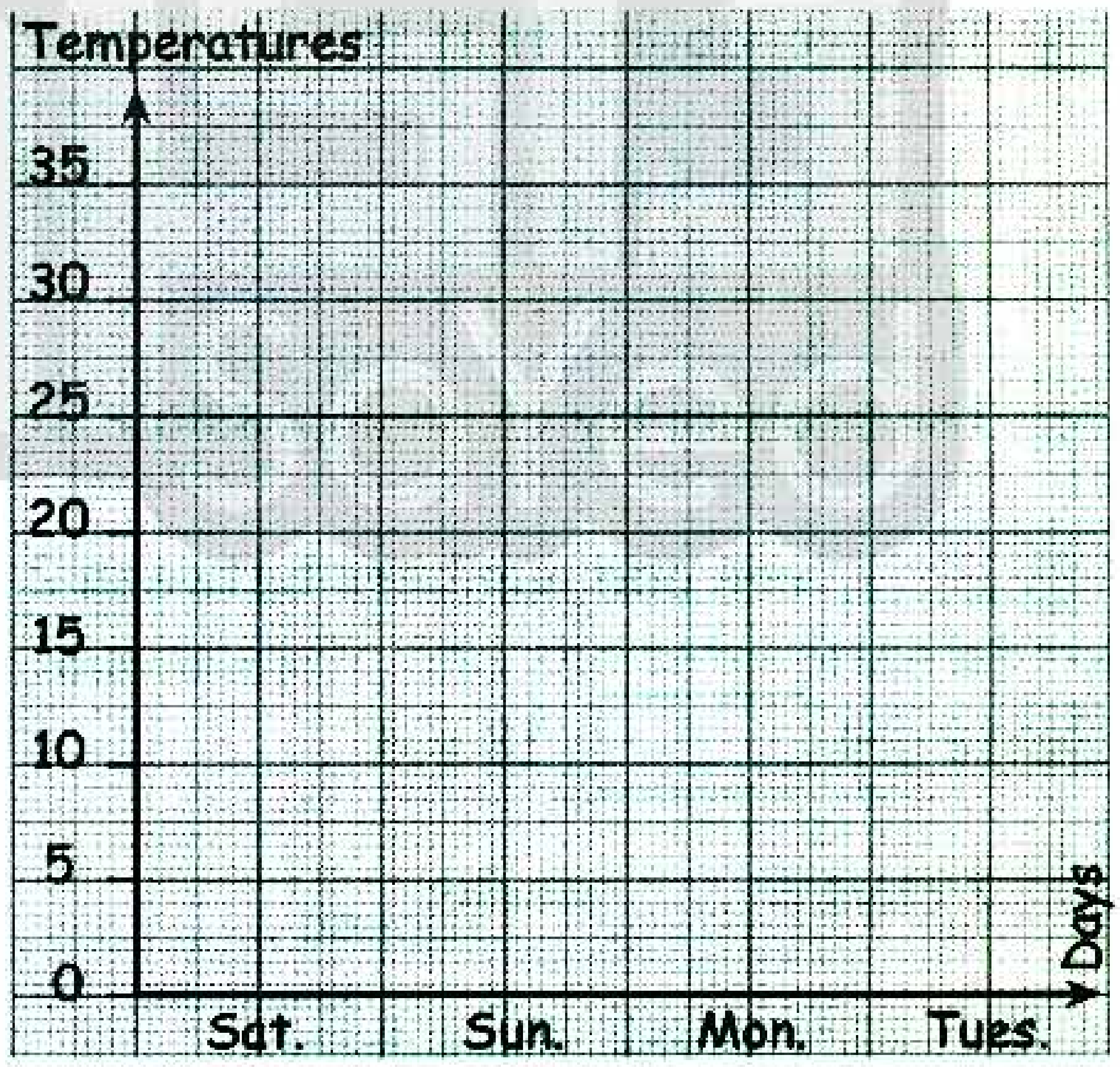
$$\frac{3}{10} ، \frac{1}{10} ، \frac{9}{10} ، \frac{2}{10}$$

The order: .... , ... , ... , ...

4 **a** The following table shows the temperature of a city during 5 days:

Days	Temperatures
Sat.	30
Sun.	20
Mon.	25
Tue.	35

Represent these data by a bar line.



b The greatest temperature was .... °C.

13 Giza Governorate - Maths Inspection

1 Choose the correct answer:

a $\frac{2}{3}$ ☐ $\frac{1}{3}$ [< or > or =]

b The perimeter of a rectangle whose length is 4 cm and width is 2 cm = ... [10 cm or 11 cm or 12 cm]

c One hour and 30 minutes = ... minutes. [120 or 90 or 60]

d The smallest fraction of the following fractions is ....

[$\frac{1}{10}$ or $\frac{1}{7}$ or $\frac{1}{3}$]

e .... is an even number. [11 or 18 or 19]

f $(9 \times 8) - (9 \times 6) = 9 \times$ .... [2 or 9 or 14]

g The probability that the sun rises from the east is .... event.

[a possible or an impossible or a certain]

h $\frac{3}{4} + \frac{1}{4} =$ .... [zero or 1 or 4]

i The probability of an impossible event is .... [zero or $\frac{1}{2}$ or 1]

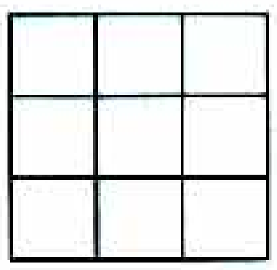
j .... are odd numbers between 2 and 6. [1, 3, 5 or 1, 3 or 3, 5]

k $12 \div 4$ ☐ 12×4 [< or > or =]

l 7 days = ... weeks. [1 or 2 or 3]

2 Complete the following:

a The area of the opposite figure = ... ☐.



b 5 meters = ... centimeters.

c $\frac{2}{3} = \frac{....}{12}$.

d The denominator of the fraction $\frac{2}{5}$ is ....

e There are .... fifths in a whole one.

f The area of a square whose side length is 1 cm equals .... cm^2.

g $\frac{1}{2}$ kilogram = ... grams.

h The perimeter of a triangle whose sides lengths are 3 cm, 4 cm and 5 cm equals .... cm.

i 208 ÷ 2 = ...

j Five sixths = $\frac{......}{......}$.

k 1 001 , 2 002 , 3 003 , ... , ... (in the same pattern)

l A square whose side length 5 cm, its perimeter = ... cm.

m 4 × 3 = 6 × ....

3 Answer the following questions:

a Arrange in ascending order: $\frac{3}{10}$, $\frac{7}{10}$, 1 , $\frac{1}{10}$

The order is: .... , ... , ... , ...

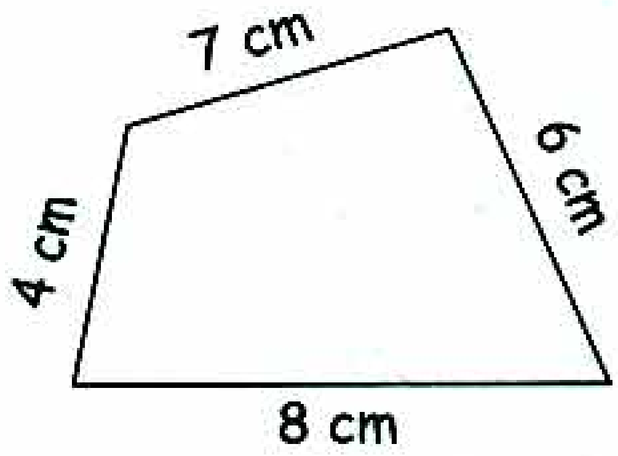
b George bought two toys for 32 pounds each, find the total price of the two toys.

The total price = ... = ... pounds.

c A box contains (4) red balls, (3) white balls and (2) black balls. Find the probability of getting a black ball when drawing one of them.

The probability = ...

d Find the perimeter of the opposite figure:

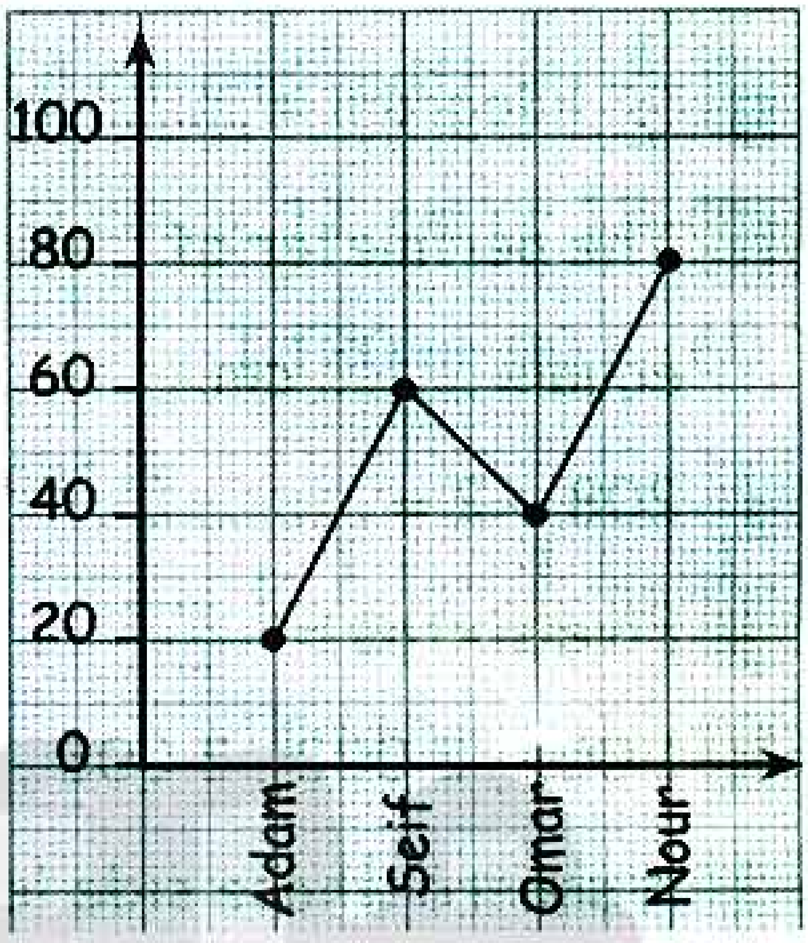


The perimeter = ...

= .... cm.

e Using the opposite figure, complete the table:

Pupils	Marks
Adam	....
Seif	....
Omar	....
Nour	....



14 Giza Governorate - Maths Inspection - Experimental Department

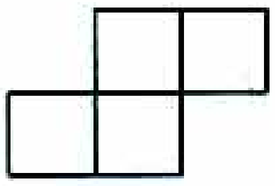
1 Complete the following:

a Two fifths = ...

b 480 ÷ 2 = ...

c 4 kg = ... gm.

d 3 years = ... months.

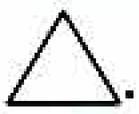
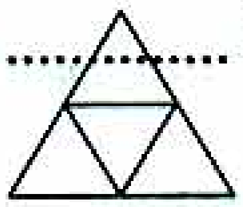
e The perimeter of the opposite figure = ... length units. 

f The probability of a certain event = ...

g The normal human temperature = ... °c.

h $\frac{3}{7} + \frac{2}{7}$ = ...

i 2 days = ... hours.

j The area of the opposite figure = ... . 

k $\frac{3}{10} = \frac{....}{50}$

l 25 meters = ... cm.

2 Choose the correct answer:

a One hour and half = ... minutes. [60 or 30 or 90]

b 6 km = ... meters. [6 000 or 600 or 60]

c .... ÷ 3 = 400 [12 or 1 200 or 120]

d A square of side length 7 cm, its perimeter = ... cm. [11 or 28 or 14]

e $\frac{2}{7}$ ☐ $\frac{5}{7}$ [< or = or >]

f The even number among these numbers is ..... . [19 or 27 or 54]

g $\frac{7}{9} - \frac{5}{9}$ = ... [$\frac{12}{9}$ or $\frac{2}{9}$ or $\frac{2}{18}$]

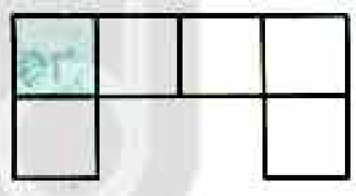
h The probability of the impossible event = ... [0 or 1 or $\frac{1}{2}$]

i $\frac{4}{4}$ ☐ 1 [< or = or >]

j 24 ÷ .... = 6 [4 or 3 or 5]

k 3 weeks = ... days. [10 or 21 or 1]

l The fraction which represents the shaded part in the opposite figure = ...



[$\frac{1}{6}$ or $\frac{1}{5}$ or $\frac{5}{6}$]

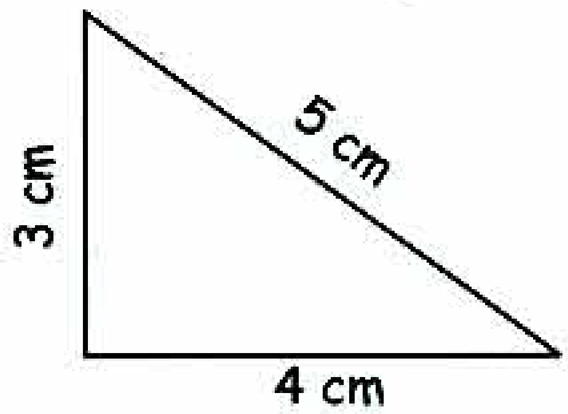
m The unit of measuring weight is ....

[meter or thermometer or kilogram]

n The rectangle whose length = 3 cm and its width = 2 cm, its perimeter = ... cm. [5 or 6 or 10]

3 a In the opposite figure, find:

The perimeter = ... + ... + ... = ... cm.



b Arrange the following fractions in ascending order:

$$\frac{3}{10} , \frac{7}{10} , \frac{9}{10} , \frac{4}{10}$$

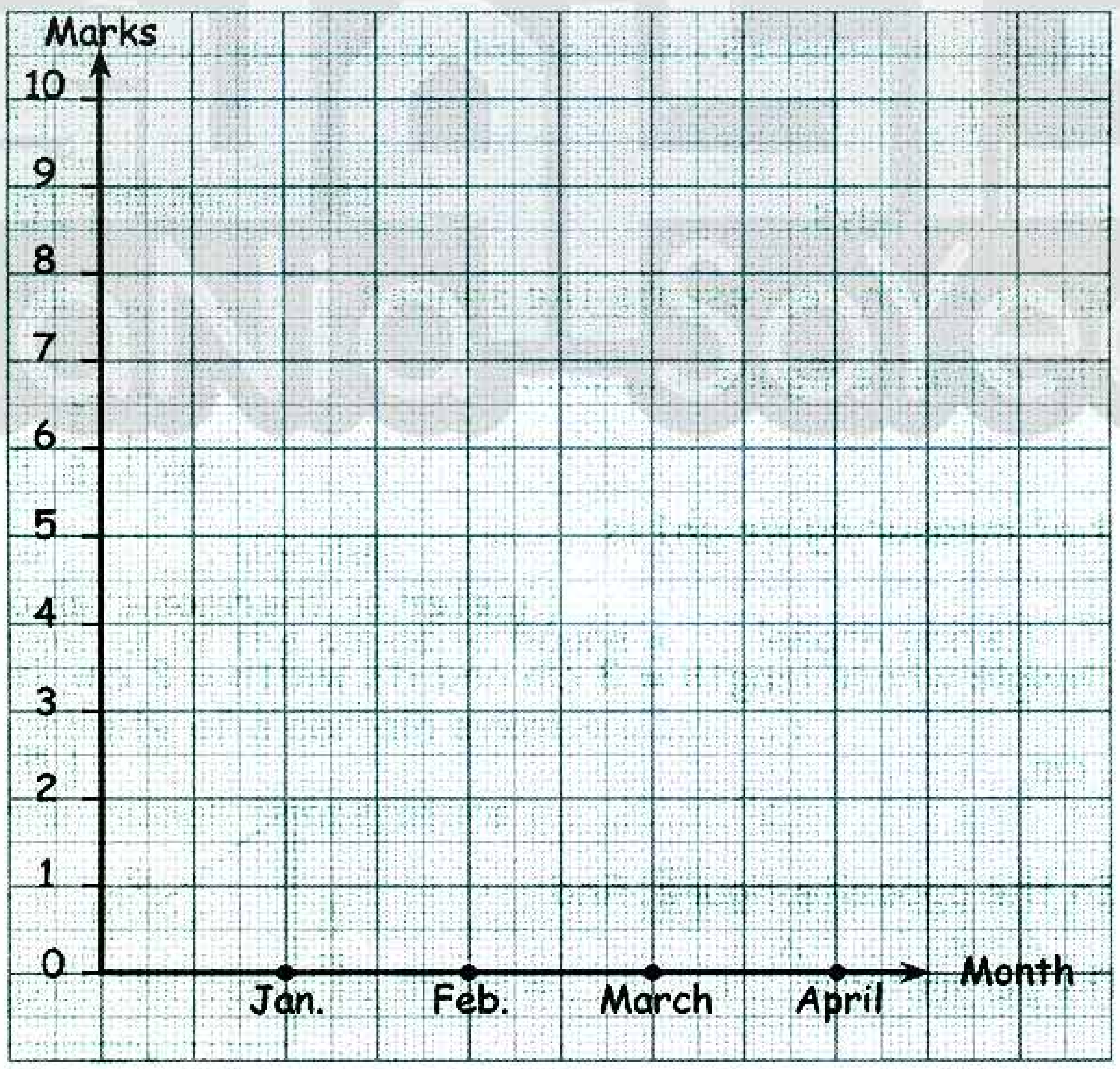
The order: .... , ... , ... , ...

c A box contains 5 red balls and 2 white balls. If a ball is drawn, find the probability of each of the following:

1) Drawing a red ball. 2) Drawing a white ball.

4 The following table shows the marks of Ali in 4 months, represent these data by a bar line:

Months	Jan.	Feb.	March	April
Marks	6	5	7	9



15 Cairo Governorate - Maths Inspection

1 Choose the correct answer:

a Which of these numbers is odd? .... [333 or 222 or 650]

b The probability of the appearance of a head when tossing a coin once is .... [$\frac{1}{6}$ or $\frac{1}{3}$ or $\frac{1}{2}$]

c 22×4 ☐ $66 \div 6$ [< or > or =]

d $\frac{1}{3}$ + ... = 1 [$\frac{2}{3}$ or $\frac{4}{3}$ or 1]

e 2 kilograms = ... grams. [200 or 20 or 2 000]

f 3 sevenths ☐ 1 [< or > or =]

g The probability of the sure event = ... [3 or 1 or 0]

h Three fifths = ... [$\frac{3}{5}$ or $\frac{5}{3}$ or 53]

i If the side lengths of a triangle are 5 cm, 4 cm and 3 cm, then its perimeter = ... cm. [12 or 50 or 5]

j Half year = ... months. [12 or 6 or 1]

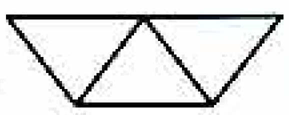
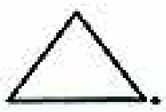
k The unit used for measuring temperature is .... [kg or cm or °c]

l $1 - \frac{1}{4}$ = ... [$\frac{0}{4}$ or $\frac{3}{4}$ or $\frac{1}{4}$]

m The even number just after 6 is .... [7 or 8 or 9]

n $(4 \times 4) \div 8$ = ... [2 or 4 or 8]

o It is .... that cats can fly. [impossible or possible or certain]

p The area of the shown figure  = ... . [2 or 3 or 4]

q 333 ÷ 3 = ... [111 or 222 or 666]

r $\frac{1}{8} + \frac{2}{8}$ = ... [$\frac{3}{4}$ or $\frac{3}{8}$ or $\frac{3}{16}$]

2 Complete the following:

a 3 weeks = ... days.

b The probability of an impossible event = ...

c $\frac{4}{7} = \frac{....}{70}$

d The smallest odd number is ....

e 7 m = ... cm.

f The perimeter of square = 20 cm, then its side length = ... cm.

g 1 hour and 20 minutes = ... minutes.

h 927 ÷ 9 = ...

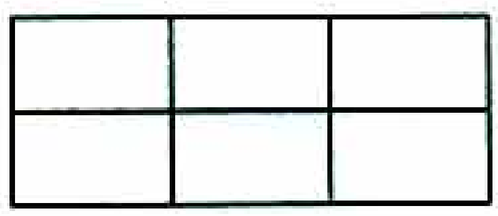
3 Answer the following:

a If we divided 660 pounds equally among 3 persons.

What will be the share of each of them?

The share of each of them = ... ÷ .... = ... pounds.

b In the opposite figure:



The area = ... ☐.

c Arrange The following fractions in ascending order:

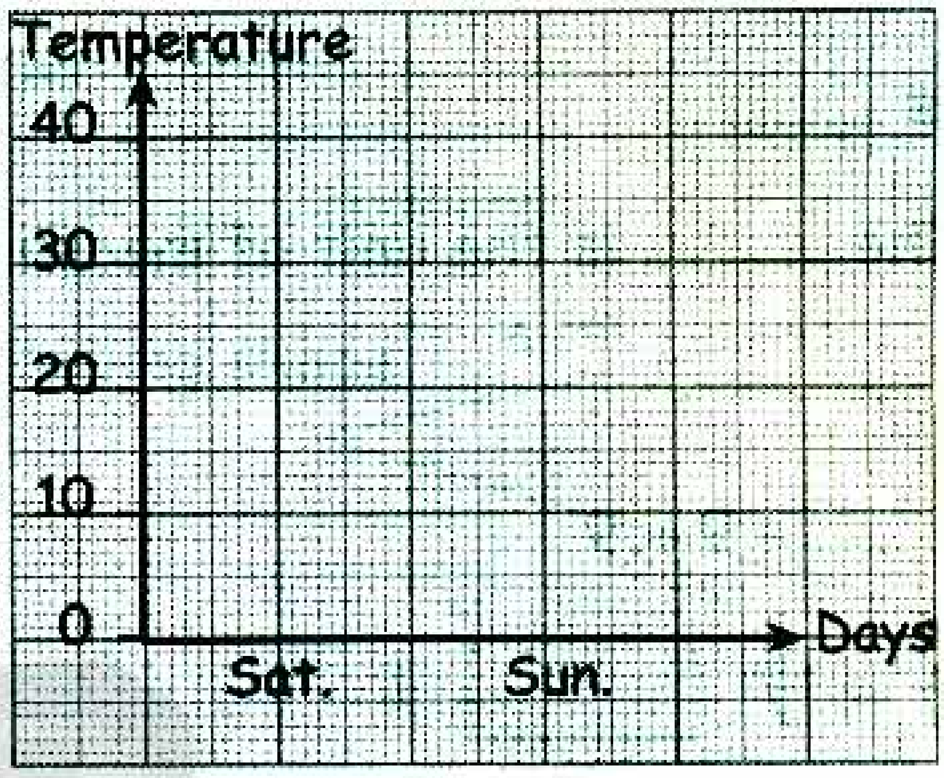
$\frac{3}{7}$, $\frac{9}{7}$, $\frac{1}{7}$ and $\frac{5}{7}$

The order .... , ... , ... , ...

d The following table shows the temperature degrees in the last 2 days.

Represent those data by a bar line:

Days	Temperature
Sun.	40
Sat.	20



16 Giza Governorate - South Giza Directorate - Abou Baker El-Sedeek O.L.S

1 Choose the correct answer:

a 804 ÷ 4 = ... [21 or 201 or 402]

b The area of the shape □□□□□ = ... □. [8 or 5 or 12]

c Five sevenths = ... [57 or $\frac{5}{7}$ or 35]

d It is .... that the sun rises from the east.

[certain or possible or impossible]

e The even number from the following is .... [15 or 16 or 17]

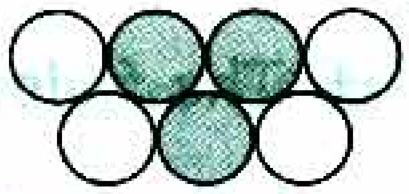
f One year = ... months. [7 or 12 or 24]

g $\frac{1}{5} + \frac{3}{5}$ = ... [$\frac{4}{10}$ or ―― or $\frac{4}{5}$]

h The probability of the certain event = ... [0 or 1 or $\frac{1}{2}$]

i 36 ÷ 6 ☐ 36 ÷ 4 [> or < or =]

j 5 km and 25 meters = ... meters. [5 025 or 525 or 30]

k The fraction which represents the shaded part 

is .... [$\frac{3}{4}$ or $\frac{3}{7}$ or $\frac{4}{7}$]

l The .... is the unit of measuring length.

[**meter** or **hour** or **kilogram**]

m .... ÷ 9 = 9 [**1** or **81** or **9**]

n $\frac{4}{7} + \frac{3}{7}$ ☐ 1 [> or < or =]

2 Complete the following:

a 45 ÷ .... = 9

b $\frac{7}{8} - \frac{2}{8}$ = ...

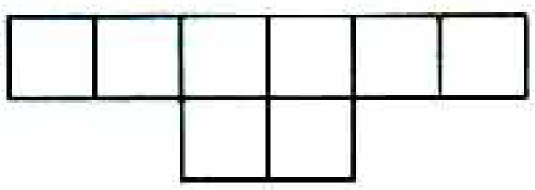
c 4 meters = ... cm.

d 13 , 16 , 19 , ... (in the same pattern)

e $\frac{5}{10} = \frac{....}{2}$

f The normal human temperature = ... °.

g 3 weeks = ... days.

h The perimeter of  = ... length units.

i The probability of the impossible event = ...

j The odd number just after 9 is ....

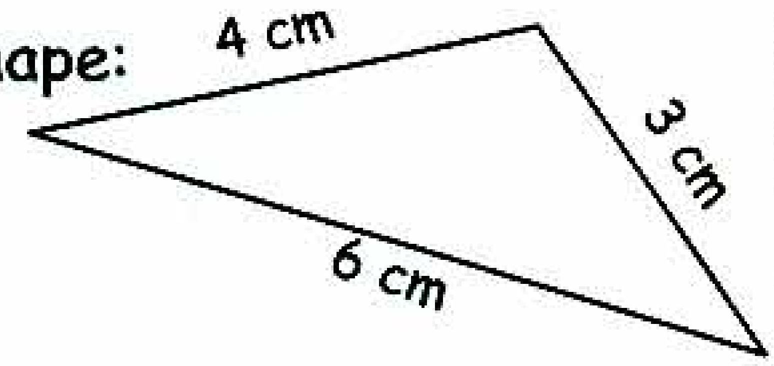
k $\frac{2}{3} = \frac{8}{....}$

l The probability of the appearance of a tail when throwing a coin is ..... .

3 A piece of land was divided equally among 6. If the area of the land was 42 feddans, what is each farmer's share?

Each farmer's share = ... ÷ .... = ... feddans.

4 Calculate the perimeter of the following shape:



The perimeter = ... cm.

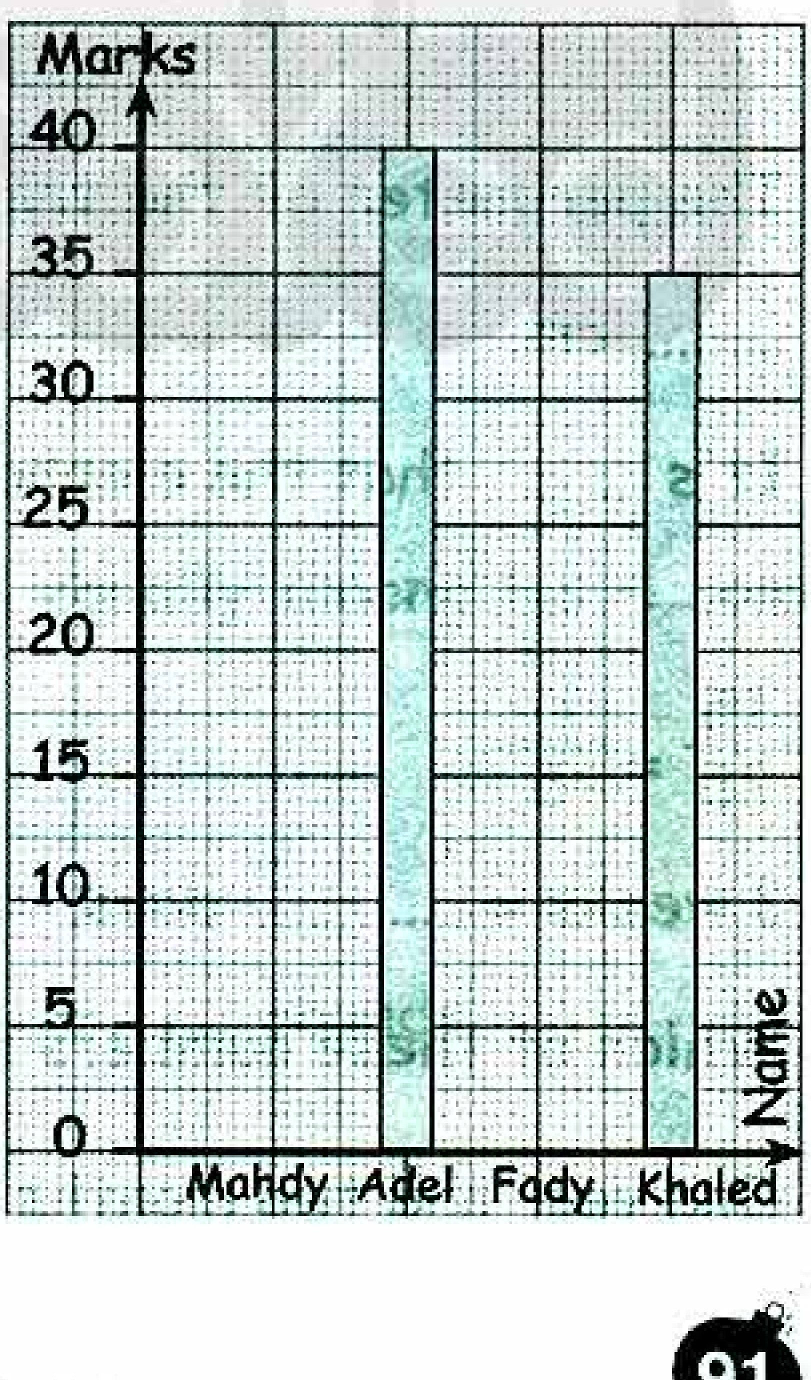
5 Arrange the following fractions in ascending order:

$$\frac{7}{8}, 1, \frac{3}{8}, \frac{1}{8}, \frac{5}{8}$$

The order is: .... , ... , ... , ... , ...

6 The following table shows the marks of some pupils in a month. Represent that by a bar chart and then complete the table:

Name	Marks
Mahdy	30
Adel	....
Fady	25
Khaled	....



17 Giza Governorate - Mathematics Supervision

1 Choose the correct answer:

a $\frac{1}{2} = \frac{5}{....}$ [4 or 10 or 2 or 5]

b $\frac{1}{5}$ ☐ $\frac{1}{2}$ [> or = or < or ≤]

c 9 tens ÷ 3 = ... [30 or 3 or 300 or 13]

d Four fifths = ... [$\frac{5}{4}$ or 45 or $\frac{1}{2}$ or $\frac{4}{5}$]

e 3 009 ÷ 3 = ... [1 003 or 3 001 or 103 or 301]

f 3 kg = ... gm. [300 or 30 or 3 000 or 3]

g $\frac{5}{8} + \frac{2}{8}$ = ... [$\frac{2}{8}$ or $\frac{1}{8}$ or $\frac{5}{8}$ or $\frac{7}{8}$]

h The normal temperature degree of the human body is ....°.

[70 or 37 or 100 or 40]

i The perimeter of the triangle whose side lengths are 5, 5 and 7 cm is .... cm. [10 or 17 or 12 or 14]

j It's .... that the elephant flies.

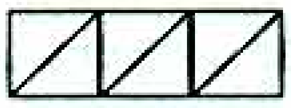
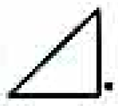
[possible or certain or impossible or sure]

k $\frac{15}{25} = \frac{....}{5}$ [5 or 1 or 15 or 3]

l 3 weeks = ... days. [21 or 14 or 7 or 1]

m Which of these numbers is even? .... [3 or 8 or 5 or 7]

n One year and two months = ... months. [18 or 12 or 14 or 2]

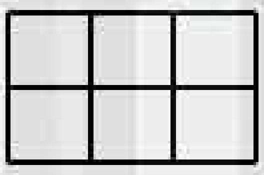
o The area of the shape  = ... . [2 or 6 or 4 or 3]

p .... is from odd numbers. [888 or 328 or 232 or 231]

q $\frac{4}{7} + \frac{3}{7}$ ☐ 1 [= or < or > or ≤]

r $\frac{5}{10}$ = ... [$\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{3}{5}$ or $\frac{5}{4}$]

2 Complete the following:

a The perimeter of the figure  is .... units.

b $\frac{7}{9} - \frac{3}{9} = \frac{......}{......}$.

c 25 meters = ... centimeters.

d 1 806 ÷ 2 = ...

e The probability of the certain event is ....

f $1 - \frac{5}{8} = \frac{......}{......}$.

g 888 ÷ 8 = ...

3

a A father distributed 200 pounds equally among his 4 sons on the occasion of feast.

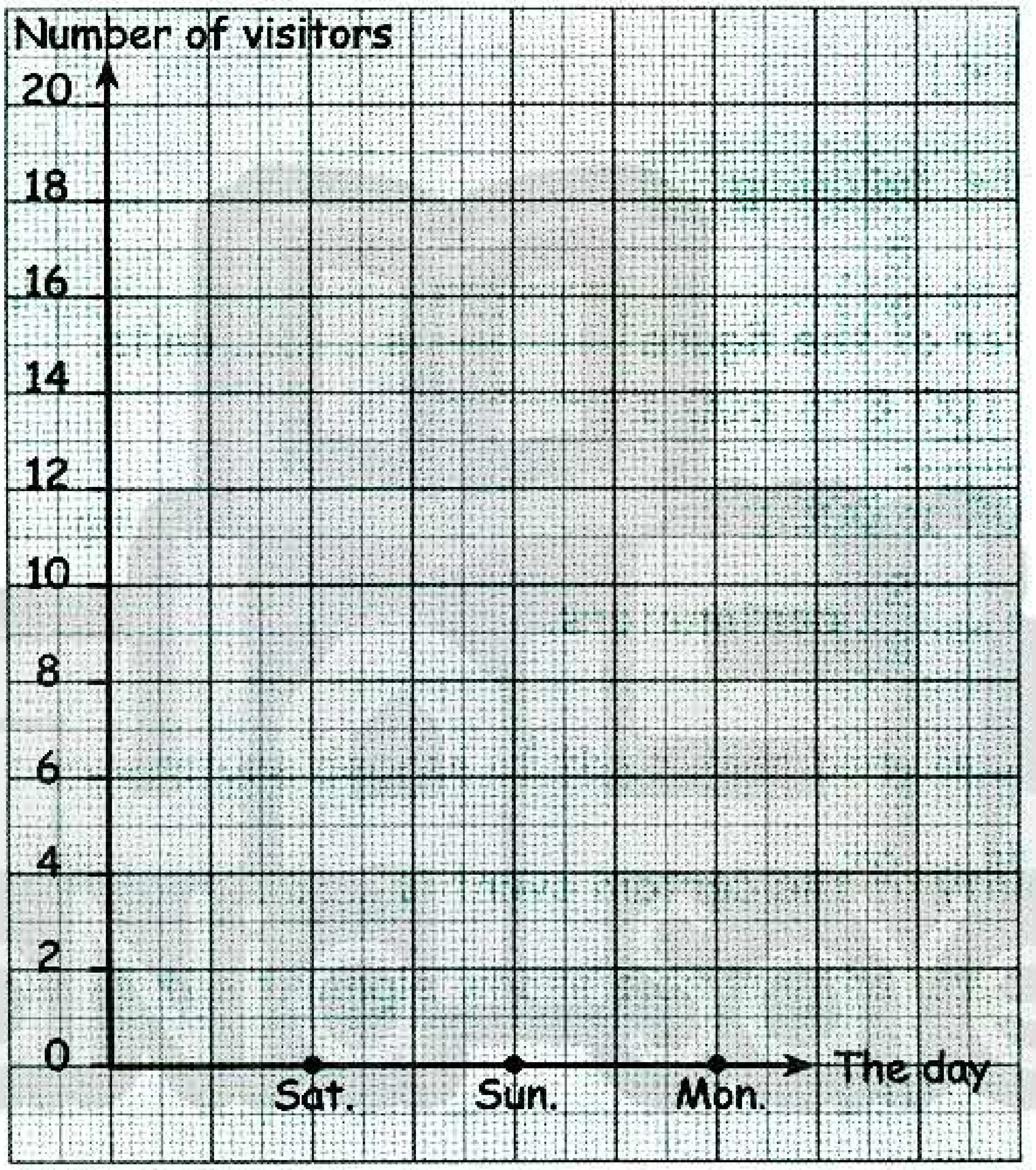
What is the share of each son?

The share of each son = ... ÷ .... = ... pounds.

b The following table shows the maximum temperature of degrees in 3 consecutive days:

The day	Sat.	Sun.	Mon.
Number of visitors	8	18	14

Represent these data by a broken line.



18 Alexandria Governorate - El-Montazah Directorate B.L.S

1 Choose the correct answer:

a The number 4 352 is a/an ...... number. [**even** or **unit** or **odd** or **tens**]

b 9 300 ÷ .... = 3 100 [**2** or **3** or **30** or **13**]

c The value of the digit 3 in the number 78 321 is ....

[300 or 3 or 3 000 or 100]

d The perimeter of the triangle whose side lengths are 8 cm, 7 cm and 10 cm = ... cm.

[20 or 25 or 15 or 17]

e $\frac{2}{7} + \frac{3}{7}$ = ...

[$\frac{5}{7}$ or $\frac{7}{5}$ or $\frac{4}{5}$ or 1]

f 2 hours and a quarter = ... minutes.

[120 or 135 or 130 or 150]

g The probability of getting three points on the face of a die when it is thrown = ...

[$\frac{1}{6}$ or $\frac{2}{6}$ or — or $\frac{5}{6}$]

h $\frac{2}{3}$ ☐ $\frac{3}{3}$

[$<$ or $>$ or $=$ or $\leq$]

i 622, 522, 422, ...

[211 or 300 or 311 or 322]

j Quarter of a kilometer = ... m.

[500 or 1 000 or 750 or 250]

k 32 ☐ 64 ÷ 2

[$<$ or $>$ or $=$ or $\leq$]

l $\frac{3}{7} = \frac{....}{21}$

[9 or 6 or 54 or 20]

m The unit of measuring weights is .... .

[kg or meter or km or °C]

n 87 000 m = ... km.

[87 or 870 or 700 or 840]

o $\frac{63}{72}$ = ...

[$\frac{3}{8}$ or $\frac{7}{8}$ or $\frac{8}{7}$ or $\frac{4}{7}$]

p 6 days = ... hours.

[140 or 150 or 120 or 144]

q 90 000 = ... thousand.

[90 or 900 or 9 or 19]

r Four fifths = $\frac{......}{......}$

[$\frac{3}{6}$ or $\frac{4}{7}$ or $\frac{3}{9}$ or $\frac{4}{5}$]

s 5 kg ☐ 550 gm. [< or > or = or <]

t The probability of getting zero in the die once = ...

[0 or 1 or $\frac{1}{6}$ or $\frac{1}{2}$]

2 Complete the following:

a 36 400 ÷ 4 = ...

b The probability of the impossible event is ....

c One year and two months = ... months.

d 5 weeks = ... days.

e $\frac{3}{4} = \frac{12}{....} = \frac{....}{36}$

f The side length of the square whose perimeter = 20 cm is .... cm.

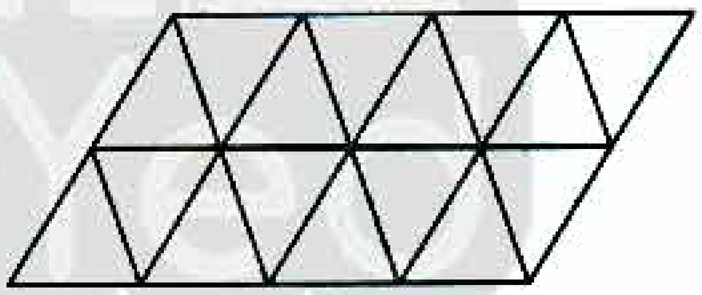
g 5 515 is an .... number.

h In the following figure: find:

The perimeter of the figure = ... units.

The area of the figure = ... ▱.

The area of the figure = ... △.



3

a A father distributed 40 015 pounds among his 5 sons equally.

Find the share of each one.

The share of each son = ... ÷ .... = ... pounds.

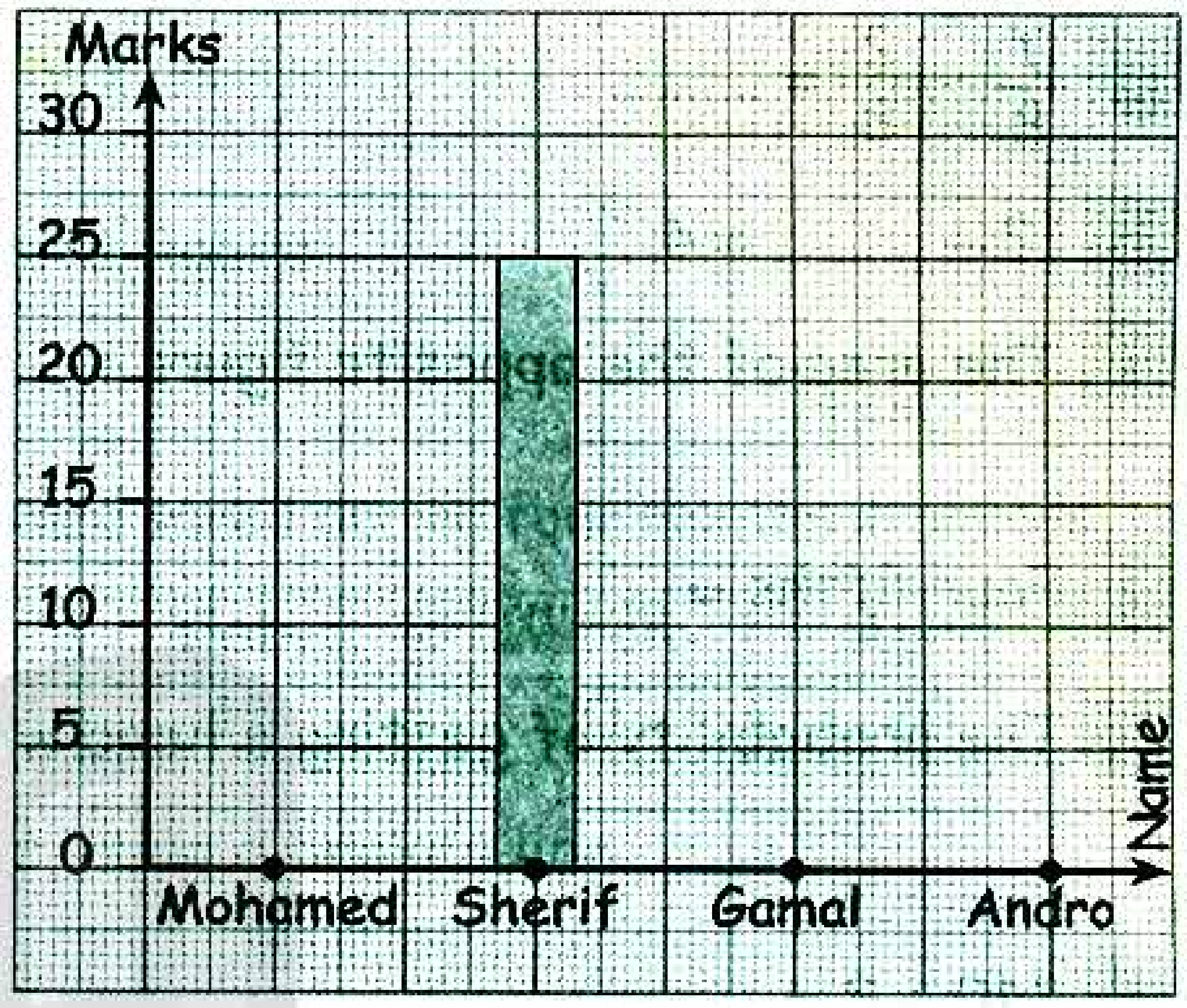
b Arrange the following fractions in ascending order:

$\frac{3}{11}$, 1, $\frac{1}{11}$, $\frac{7}{11}$

The ascending order is: .... , ... , ... , ...

c The following table shows the marks of some pupils in a month:

Name	Marks
Mohamed	25
Sherif	....
Gamal	10
Andro	30



Represent these data by a bar chart and then complete the table.

d A jar contains 9 gray and 3 white balls, if a ball is drawn at random:

1) The probability of the drawn ball being gray is ....

2) The probability of the drawn ball being white is ....

19 Alexandria Governorate - Montazah Educational Zone - Tiba L.S.

1 Choose the correct answer:

a 3 kilograms = ... gm. [300 or 3 or 3 000]

b $\frac{4}{9} + \frac{1}{9} =$ .... [$\frac{5}{18}$ or $\frac{5}{9}$ or $\frac{4}{9}$]

c The odd number is .... [487 or 728 or 46]

d 2 weeks = ... days. [7 or 14 or 21]

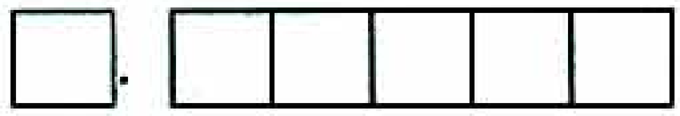
e The perimeter of the square with 7 cm side length is .... cm.

[14 or 21 or 28]

f $\frac{12}{18} = \frac{2}{....}$ [6 or 9 or 3]

g $\frac{7}{8} - \frac{2}{8} =$ .... [$\frac{9}{8}$ or $\frac{5}{8}$ or $\frac{4}{16}$]

h 12 ÷ .... = 4 [2 or 4 or 3]

i The area of the opposite figure = ... 

[4 or 6 or 5]

j Four fifths = ... [$\frac{5}{4}$ or $\frac{3}{5}$ or $\frac{4}{5}$]

k The probability of getting a head when tossing coin is ....

[$\frac{1}{2}$ or $\frac{1}{4}$ or $\frac{1}{3}$]

l 240 ÷ 2 = ... [12 or 480 or 120]

m The probability that the sun rises from west is ....

[certain or possible or impossible]

2 Complete the following:

a 246 ÷ 6 = ...

b $\frac{3}{10} + \frac{1}{10} =$ ....

c $\frac{20}{25} =$ .... (in the simplest form).

d The probability of the impossible event = ...

e 303 ÷ 3 = ...

f 5 meters = ... cm.

g The perimeter of the triangle with sides of 3 cm, 4 cm and 5 cm is ...... cm.

h $\frac{5}{....} = 1$

i 328 ÷ 4 = ...

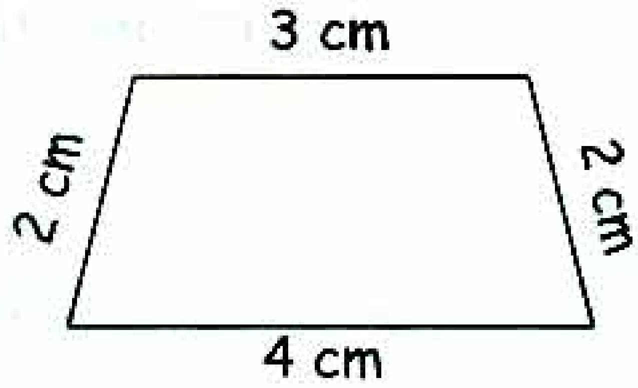
j One day = ... hours.

k The normal temperature degree of the human body = ...

3 Answer the following questions:

a 2 709 ÷ 3 = ...

b Find the perimeter of the opposite figure:

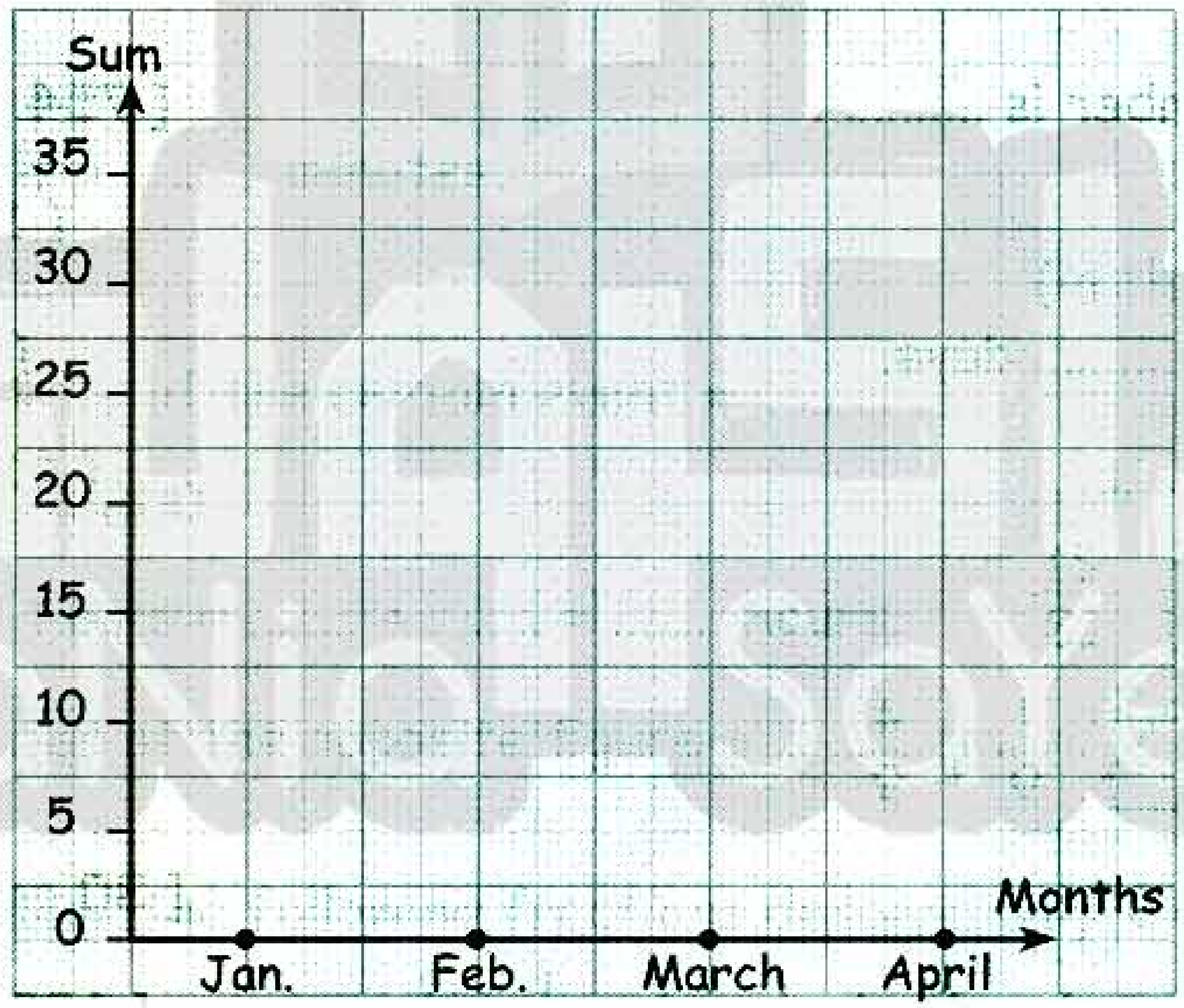


The perimeter = ...

c The following table shows what Ahmed saved during four months in pounds:

Month	Jan.	Feb.	March	April
Sum	25	15	30	20

Represent the data in this table using a broken line.



20 Alexandria Governorate - Agamy Education Zone - Maths Supervision

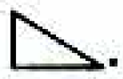
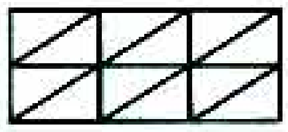
1 Choose the correct answer:

a $\frac{2}{7} + \frac{3}{7}$ = ... [$\frac{5}{7}$ or $\frac{5}{14}$ or $\frac{6}{7}$]

b 2 thirds = ... [$\frac{3}{2}$ or 2 or $\frac{2}{3}$]

c A square of perimeter 8 cm, its side length = ... cm.

[16 or 2 or 4]

d The area of the opposite figure = ...  . 

[12 or 3 or 6]

e One day = ... hours. [7 or 24 or 60]

f The probability that the sun rises from the west is ....

[**certain** or **possible** or **impossible**]

g The odd number is .... [754 or 263 or 890]

h $\frac{3}{5} = \frac{....}{20}$ [12 or 15 or 18]

i The week = ... days. [24 or 7 or 12]

j 505 ÷ 5 = ... [11 or 101 or 25]

k $\frac{10}{13}$ ☐ $\frac{21}{13}$ [> or < or =]

l $1 - \frac{4}{9}$ ☐ $\frac{1}{9} + \frac{4}{9}$ [> or < or =]

m 3 kg = ... gm. [30 or 300 or 3 000]

n 10 tens = ... hundreds. [100 or 1 000 or 1]

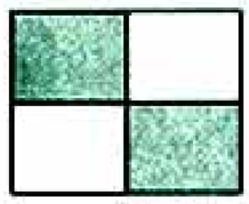
o The normal temperature degree of the human body = ...

[70° or 37° or 47°]

p Four fifths ☐ $\frac{5}{4}$ [> or < or =]

q 5 tens, 3 hundreds and 2 units = ... [532 or 352 or 235]

r The fraction which represents the shaded part in the figure



is .... [1 or $\frac{3}{8}$ or $\frac{1}{2}$]

s One year and two months = ... months. [14 or 12 or 15]

t $\frac{3}{4}$ + ... = 1 [$\frac{1}{4}$ or $\frac{2}{4}$ or $\frac{3}{4}$]

2 Complete the following:

a $\frac{9}{27} = \frac{1}{....}$

b If the sides of a triangle are 3 cm, 5 cm and 4 cm, then its perimeter = ... cm.

c 2 hours, half = ... minutes.

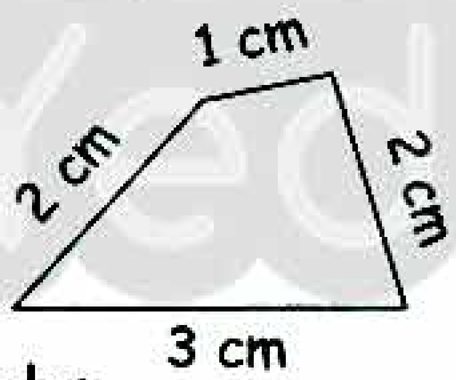
d 3 , 6 , 9 , ... , ... (in the same pattern)

e The probability of the certain event = ...

f 650 + ... = 800

g 1 day and 6 hours = ... + ... = ... hours.

h The perimeter of the opposite figure = ... cm.



3

a Arrange the following fractions descendingly:

$\frac{1}{2}$, $\frac{1}{5}$, $\frac{1}{3}$, $\frac{1}{8}$

.... , ... , ... , ...

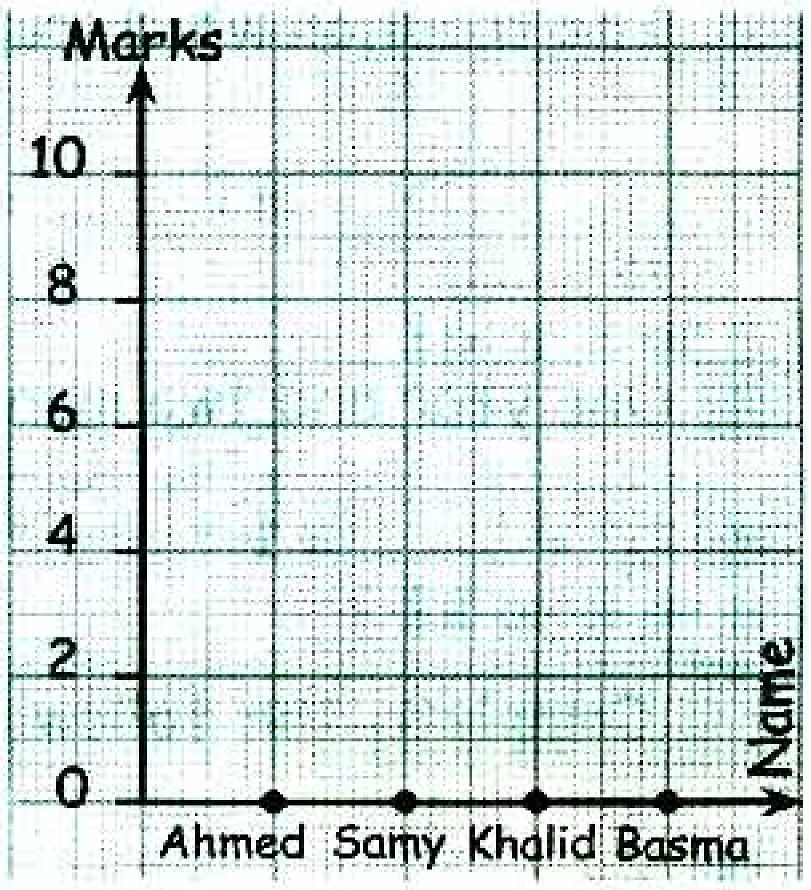
b Hoda's father distributed 303 pounds between his three sons, what is the share of each of them?

The share of each = ... ÷ .... = pounds

c The following table shows the marks of 4 pupils in a maths exam:

Name	Ahmed	Samy	Khalid	Basma
Marks	8	10	6	10

Represent the data by a broken line.



d A rectangle whose length is 8 cm and width is 3 cm, calculate its perimeter.

21 Gharbia Governorate - The Central Maths Supervision - Official Language Schools

1 Choose the correct answer:

a (5 × 5) ÷ 5 = ... [5 or 1 or 25]

b 9 tens ÷ 3 = ... [30 or 40 or 50]

c Four fifths = ... [$\frac{5}{4}$ or 45 or $\frac{4}{5}$]

d The perimeter of an equilateral triangle is 18 cm, then its side length = ... cm. [9 or 12 or 6]

e When tossing a metallic coin once, then the probability of the appearance of a tail is .... [0 or $\frac{1}{2}$ or 1]

f 2 014 ÷ 2 = ... [1 007 or 107 or 17]

g The temperature degree of the normal human is .... [70° or 37° or 47°]

2 Choose the correct answer:

a One year and a quarter of year = ... months. [13 or 14 or 15]

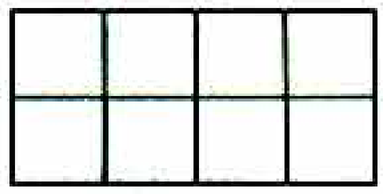
b The perimeter of the square whose side length is 5 cm = ... cm.

[15 or 20 or 15]

c $1 - \frac{4}{9}$ ☐ $\frac{1}{9} + \frac{4}{9}$ [> or < or =]

d Forty five tens = ... [450 or 45 or 4 510]

e The area of the opposite figure = ... ☐.



[6 or 8 or 10]

f The perimeter of the opposite figure = ... units. [6 or 8 or 12]

g It's .... that the elephant flies. [possible or impossible or certain]

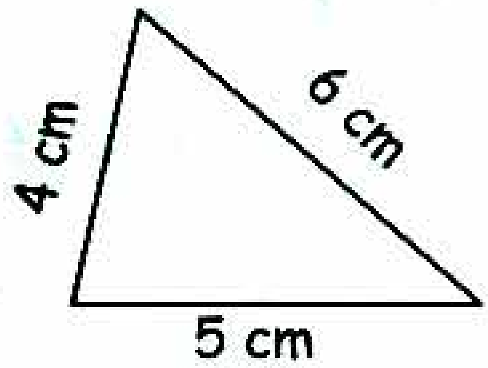
3 Choose the correct answer:

a .... is of the length units measure. [gm or min or m]

b The area of the shape  equals .... . [3 or 8 or 6]

c 505 ÷ 5 = ... [11 or 101 or 110]

d The perimeter of the opposite figure = ... cm.



[12 or 15 or 10]

e $\frac{1}{4}$ km = ... gm. [250 or 450 or 500]

f The probability that the sun rises from the east = ...

[0 or $\frac{1}{2}$ or 1]

g The perimeter of the rectangle whose length is 8 cm and width is 3 cm = ... cm. [24 or 22 or 11]

4 Complete the following:

a 3 009 ÷ 3 = ...

b 3 kg = ... gm.

c $1 - \frac{5}{8}$ = ...

d The probability that the sun rises from the west = ...

e One day and two hours = ... hours.

f A man distributed 690 pounds among his three sons equally. What is the share of each of them?

The share of each son = ... ÷ .... = ... pounds.

5 Complete the following:

a $\frac{3}{7} + \frac{2}{7}$ = ...

b $\frac{9}{27} = \frac{....}{3}$

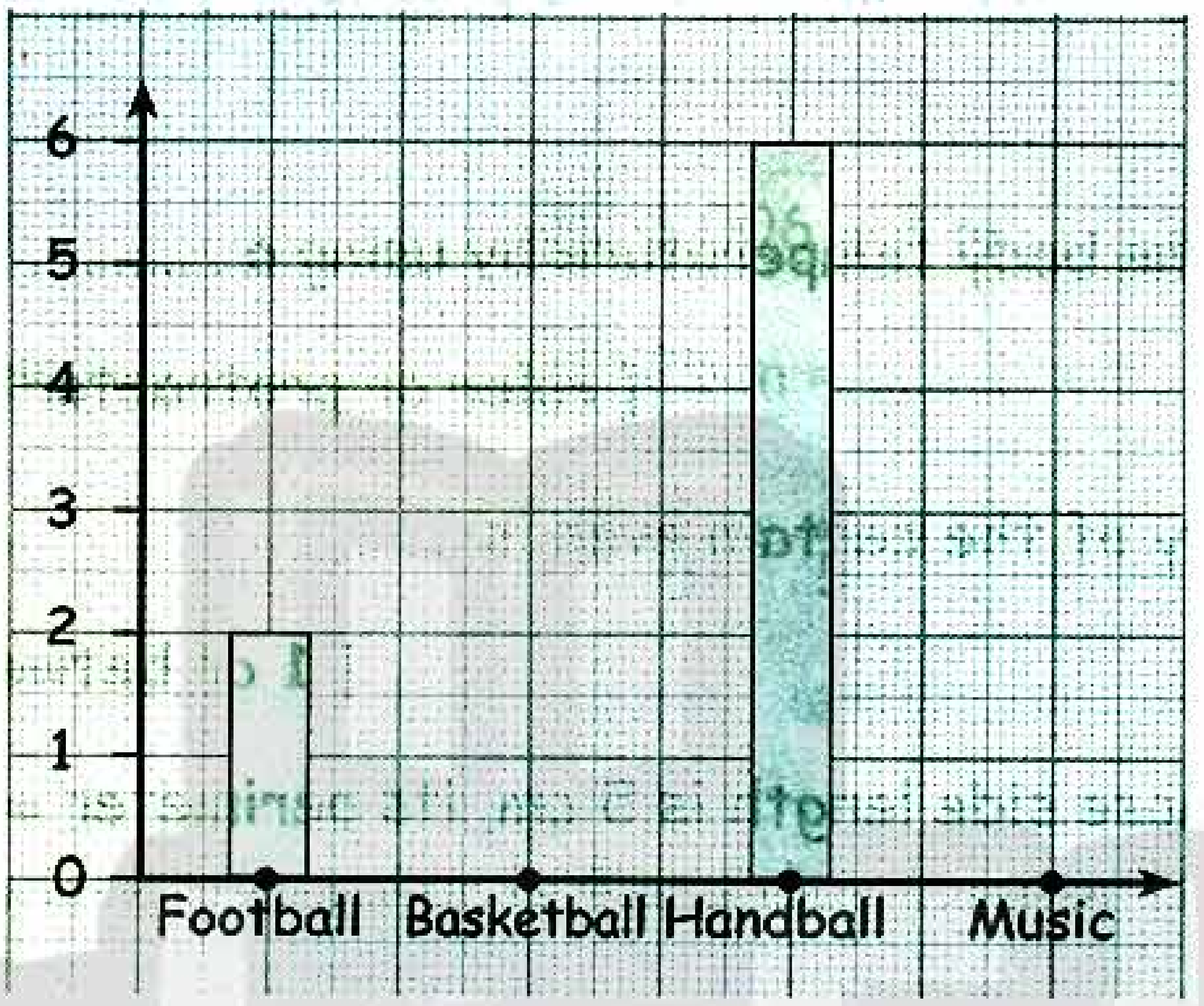
c In a class of 40 pupils, 23 are boys and 17 are girls. One day, one of the pupils was absent, then the probability of the absent pupil being a boy = $\frac{......}{......}$.

d 3 weeks = ... days.

e The two consecutive odd numbers whose sum is 100 are ..... and ..... .

f Complete each of the table and the bar line:

Activity	Football	Basketball	Handball	Music
No. of pupils	....	5	....	4



22 El-Behira Governorate - Kafr El-Dawar Educational Zone

1 Choose the correct answer:

a One year and 2 months = ... months. [14 or 16 or 18]

b The event that the sky rains gold is ....

[possible or impossible or certain]

c Day and 5 hours = ... hours. [24 or 29 or 31]

d 824 ÷ 4 = ... [26 or 206 or 260]

e The measuring unit of length is .... [m or minute or gm]

f $1 = \frac{4}{....}$ [2 or 3 or 4]

g Five ninths = ... [$\frac{5}{9}$ or $\frac{9}{5}$ or 95]

h The even number is .... [5 or 3 or 8]

i When throwing a fair coin once the probability of the appearance of a tail is .... [0 or 1 or $\frac{1}{2}$]

j We measure the body temperature by using a ....

[**ruler** or **protractor** or **thermometer**]

k The probability of the certain even is ....

[1 or **between** 0 **and** 1 or 0]

l The square whose side length is 5 cm, its perimeter = ... cm.

[16 or 20 or 25]

m The normal temperature of human body is .... degrees.

[70 or 37 or 17]

n The measuring of weight is .... [**hour** or **meter** or **kilogram**]

o $\frac{3}{4}$ ☐ $\frac{5}{4}$ [< or > or =]

p 1 ☐ $\frac{6}{7}$ [< or > or =]

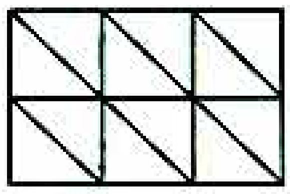
q 2 weeks = ... days. [7 or 14 or 21]

r 2 hours = ... minutes. [60 or 120 or 200]

s If a box has 3 red balls and 4 yellow balls and a ball is chosen randomly, then the probability that the chosen ball is yellow is ....

[1 or $\frac{3}{7}$ or $\frac{4}{7}$]

t The area of the following figure is .... ◸.



[**7** or **6** or **8**]

2 Complete the following:

a 18 ÷ .... = 3

b 3 006 ÷ 3 = ...

c 3 kg = ... gm.

d 25 m = ... cm.

e $\frac{3}{7} - \frac{2}{7}$ = ...

f $\frac{1}{5} + \frac{3}{5}$ = ...

g $\frac{2}{3} = \frac{4}{....}$

h The number whose numerator is 4 and denominator is 11 is ....

3

a Arrange the following fractions in ascending order:

$$\frac{3}{10} ، \frac{9}{10} ، \frac{2}{10} ، \frac{5}{10}$$

The ascending order is: .... , ... , ... , ...

b Find the perimeter of the triangle whose side lengths are 9 cm, 7 cm and 4 cm.

The perimeter of the triangle = ... + ... + ... = ... cm.

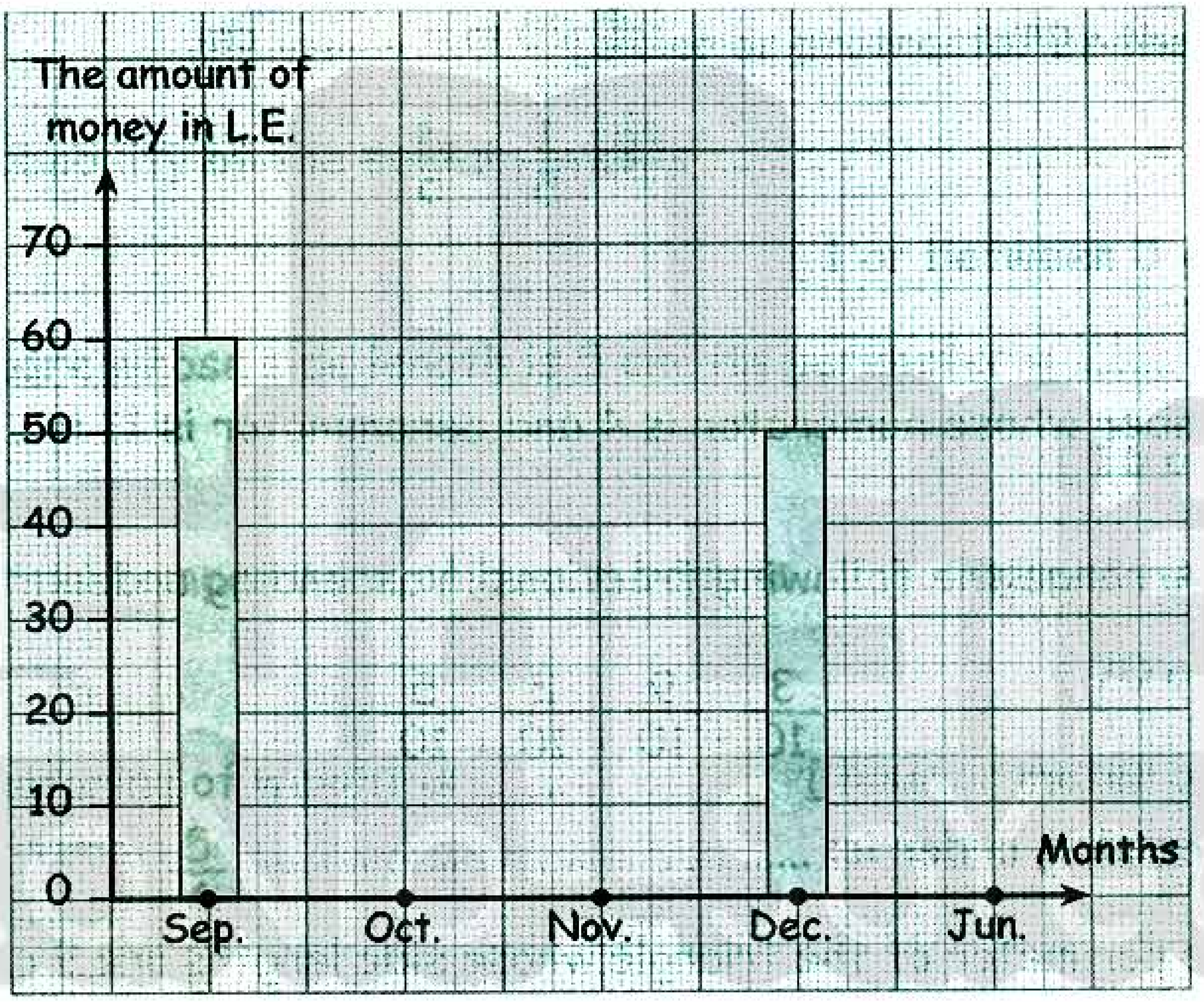
c Father distributed 684 pounds equally among his two sons. Find the share of each son?

What each son took = ... ÷ .... = ... pounds.

d The following table and the bar line represent the amount of money in L.E. that Mona saved in five months. Complete the table and bar line:

Months	September	October	November	December	January
The amount of money in L.E.	....	70	50	....	30

Represent these data by bar lines.



23 El-Behira Governorate - Mathematics Inspection

1 Complete the following:

a 3 690 ÷ 9 = ...

b .... ÷ 3 = 6

c The smallest odd number is ....

d $\frac{....}{9} + \frac{2}{9} = \frac{7}{9}$

e The probability of getting a number less than 1 when throwing a fair die = ...

f Two sevenths + 3 sevenths = ...

g $1 = \frac{....}{9}$

h The probability of the sure event = ...

i 5 × .... = 40

j If a box contains 4 white balls, 5 red balls and 3 black balls, the probability of drawing a red ball is ....

2 Choose the correct answer:

a ..... $\overline{)42}$ = 7 [8 or 6 or 5]

b The two even numbers whose sum is 20 are ....

[9 and 11 or 12 and 8 or 5 and 15]

c 36 ÷ 3 ☐ 36 × 3 [> or < or =]

d 2 601 ÷ 9 ☐ 2 610 ÷ 9 [> or < or =]

e The perimeter of the square whose side length is 5 cm = ... cm.

[10 or 20 or 25]

f $\frac{5}{4}$ ☐ $\frac{3}{4}$ [> or < or =]

g .... $- \frac{1}{6} = \frac{1}{6}$ [zero or $\frac{2}{6}$ or $\frac{1}{6}$]

h A rectangle whose length is 5 cm and width is 3 cm, then its perimeter = ... cm. [**16** or **8** or **15**]

i It .... that the elephant flies.

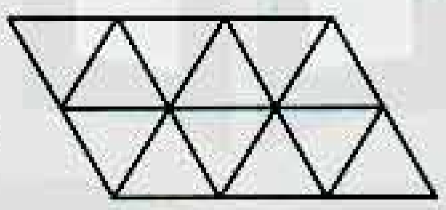
[**possible** or **impossible** or **certain**]

j $\frac{3}{8} + \frac{1}{8} = ...$. [$\frac{4}{16}$ or $\frac{1}{8}$ or $\frac{1}{2}$]

k The normal human temperature degree is .... °.

[**35** or **37** or **100**]

l $24 \div 3 = ... \times 4$ [**8** or **6** or **2**]

m The area of the figure  = ... △.

[**12** or **6** or **24**]

n It is .... that the sky rains gold.

[**impossible** or **possible** or **sure**]

o $\frac{1}{5}$ ☐ $\frac{1}{3}$ [**>** or **<** or **=**]

p The probability of the appearance of an even number when throwing a fair die once is .... [$\frac{1}{6}$ or $\frac{1}{3}$ or $\frac{1}{2}$]

q 3 kg and 30 gm = ... gm. [**3 030** or **330** or **300 030**]

r The perimeter of the triangle whose side lengths are 5 cm, 3 cm and 7 cm = ... cm. [**15** or **105** or **537**]

s When tossing a metallic coin once, then the probability of the appearance of a head = ... [$\frac{1}{2}$ or **1** or **zero**]

t $\frac{3}{4}$ + ... = 1 [$\frac{1}{4}$ or $\frac{7}{4}$ or $\frac{2}{4}$]

u 570 m = ... cm. [57 or 5 700 or 57 000]

3 **a** Samia and Mariam's father distributed among them 226 pounds equally. What is the share of each one?

The share of each one = ... ÷ .... = ... pounds.

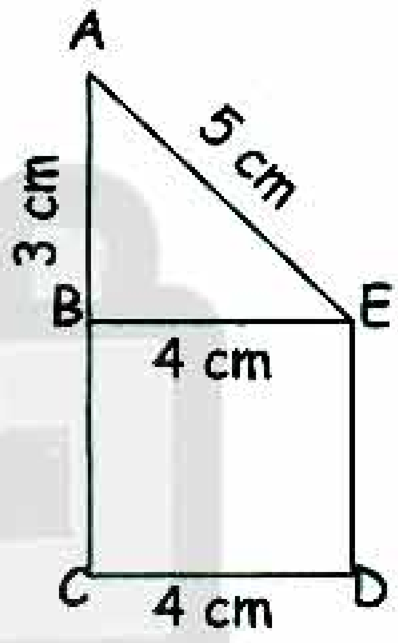
b In the following figure:

EBCD is a square, AB = 3 cm,

DC = 4 cm and AE = 5 cm, find:

1) The perimeter of the triangle ABE = ... cm.

2) The perimeter of the figure ACDE = ... cm.



24 Damietta Governorate - Damietta Educational Directorate

1 **Choose the correct answer:**

a The number .... is an even number.

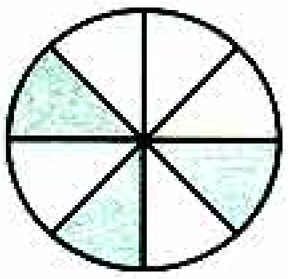
[251 or 85 or 642 or 413]

b 5 kilograms = ... grams. [5 or 50 or 500 or 5000]

c The distance between Cairo and Damietta = ...

[180 cm or 180 m or 180 km or 180 kg]

d The fraction which represents the shaded part in the figure is ....



[1 or $\frac{1}{2}$ or $\frac{3}{8}$ or $\frac{3}{5}$]

e 30 hours = one day and .... hours. [2 or 6 or 18 or 24]

f 3006 ÷ 3 = ... [12 or 102 or 2001 or 1002]

g $\frac{3}{7} + \frac{2}{7}$ = ... [$\frac{1}{7}$ or $\frac{5}{14}$ or $\frac{5}{7}$ or $\frac{6}{7}$]

h The perimeter of a square of side length 3 cm is .... cm.

[12 or 6 or 4 or 18]

i It is .... that the elephant flies.

[**possible** or **impossible** or **certain** or **sure**]

j A box contains 5 white balls and 3 red balls, if one ball is drawn randomly, then the probability that the drawn ball is white = ...

[$\frac{5}{8}$ or $\frac{3}{8}$ or $\frac{3}{5}$ or $\frac{5}{3}$]

k The normal temperature of human body is .... °C.

[35 or 37 or 42 or 73]

l Four fifths = ... [$\frac{5}{4}$ or 45 or $\frac{4}{5}$ or $4\frac{1}{5}$]

m The sum of two odd numbers is 100, then they are ....

[51 and 49 or 52 and 48 or 17 and 13 or 70 and 30]

n 25 meters = ... centimeters. [25 or 250 or 2500 or 25000]

o The unit of measuring weights is ....

[**hour** or **meter** or **kilogram** or **thermometer**]

p $\frac{1}{2}$ .... $\frac{1}{3}$. [> or < or = or +]

q 2 weeks = ... days. [120 or 14 or 48 or 24]

r The probability of getting a head when throwing a fair coin once = ...
[1 or zero or $\frac{1}{6}$ or $\frac{1}{2}$]

s Two hours and 30 minutes = ... minutes.
[30 or 60 or 120 or 150]

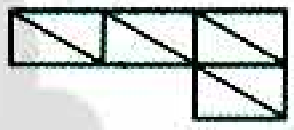
t $24 \div 4 = 2 \times$ .... [6 or 24 or 4 or 3]

2 Complete the following:

a The probability of the certain event = ...

b $\frac{3}{5} = \frac{....}{20}$

c The area of the opposite figure = ... 



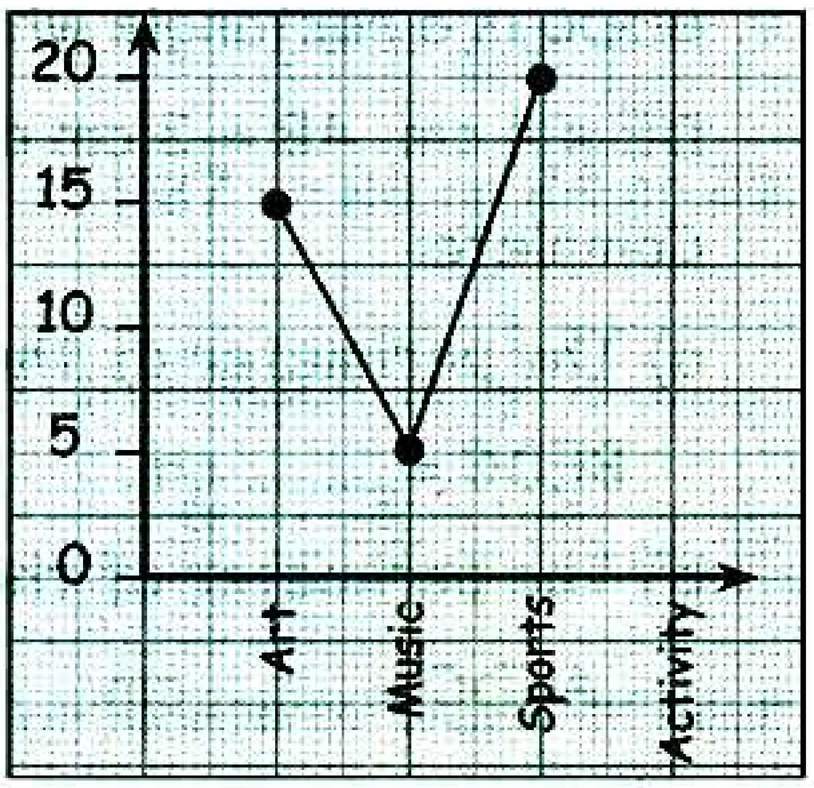
d If $3 \times 7 = 21$, then $21 \div 7 =$ ....

e $1 - \frac{5}{8} =$ ....

f The triangle whose side lengths are 5 cm, 3 cm and 4 cm, then its perimeter = ... = ... cm.

g 13, 16, 19, ... (Complete in the same pattern)

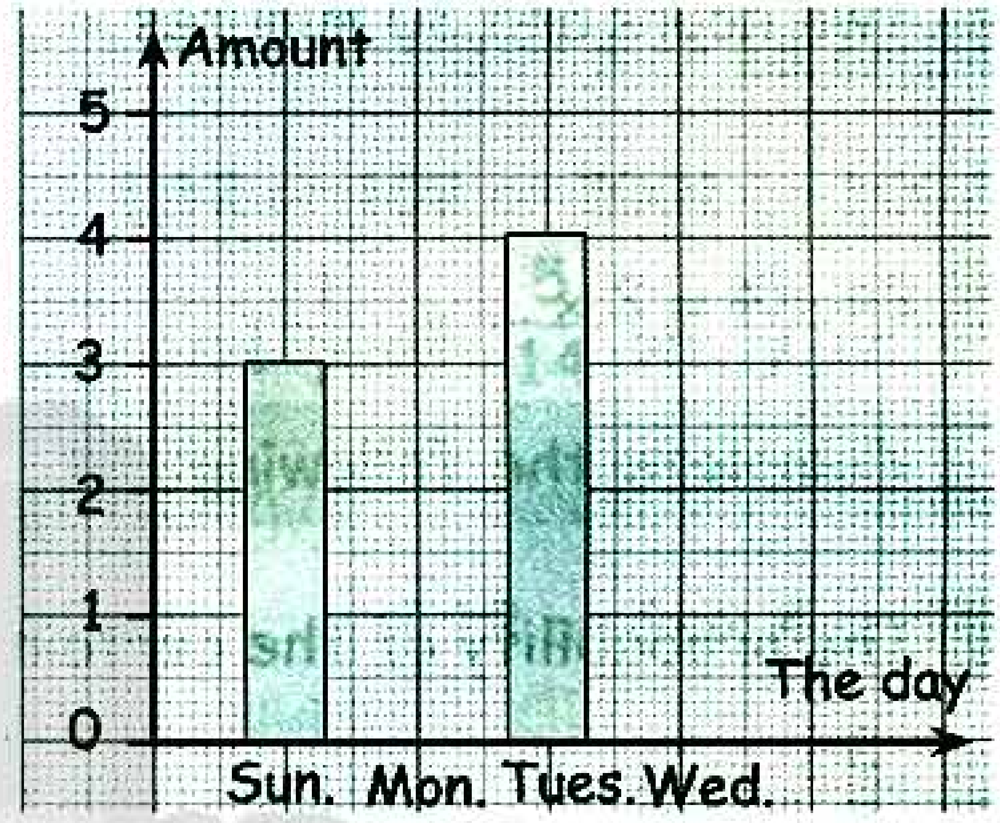
h The least number of the pupils is in the activity of ....



3 Answer the following:

a The following table and graph show the money saved by Ahmed during four days. Complete the table and represent these data by a bar line.

The day	Amount
Sunday	....
Monday	6
Tuesday	....
Wednesday	5



b Arrange the following fractions in ascending order:

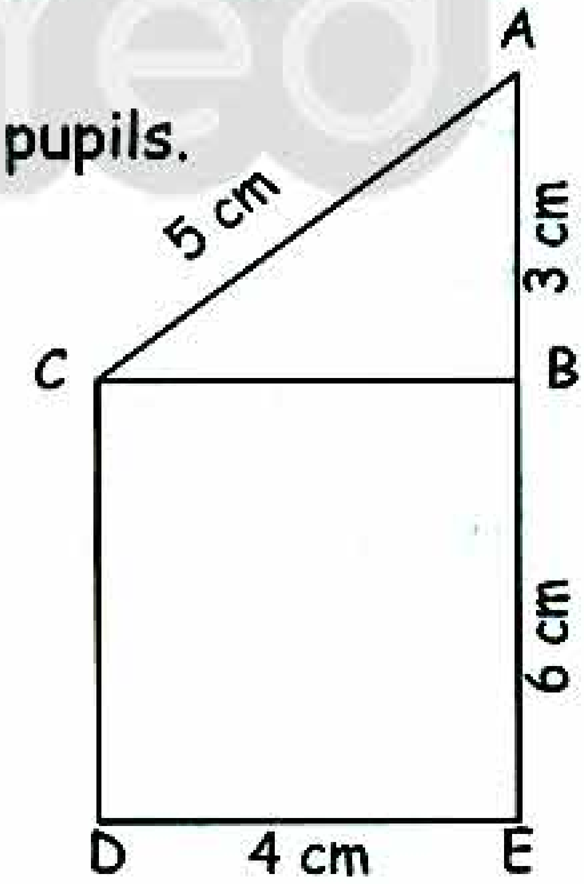
$\frac{7}{9}$, $\frac{5}{9}$, $\frac{8}{9}$ and $\frac{4}{9}$

The order is: .... , ... , ... , ...

c A primary school has 9 classes with an equal number of pupils in each, if the whole number of pupils is 450 pupils, how many pupils are there in each class?

The number of pupils in each class = ... = ... pupils.

d In the follwoing figure:



BEDC is a rectangle where BE = 6 cm, DE = 4 cm, AB = 3 cm and AC = 5 cm.

Complete:

a) The perimeter of the rectangle BEDC = ... cm.

b) The perimeter of the whole shape AEDC = ... cm.

25 Matrouh Governorate - Matrouh Educational Directorate

1 Choose the correct answer between brackets:

a The odd number in the following is .... [12 or 10 or 15 or 8]

b The weight of a gold ring = 3 ....

[hours or meters or grams or centimeters]

c 8088 ÷ .... = 1011 [5 or 7 or 6 or 8]

d Two days = 48 .... [meters or grams or hours or days]

e $\frac{7}{10} - \frac{4}{10}$ = ... [$\frac{9}{10}$ or $\frac{4}{10}$ or $\frac{7}{10}$ or $\frac{3}{10}$]

f Two odd numbers whose sum is 100 are ....

[43,57 or 36,66 or 52,47 or 50,51]

g The probability of the impossible event = ...

[zero or $\frac{1}{4}$ or 1 or $\frac{1}{2}$]

h The number which if multiplied by 5 gives the product 40 is ....

[6 or 7 or 8 or 9]

i The odd number just before 25 is .... [27 or 26 or 24 or 23]

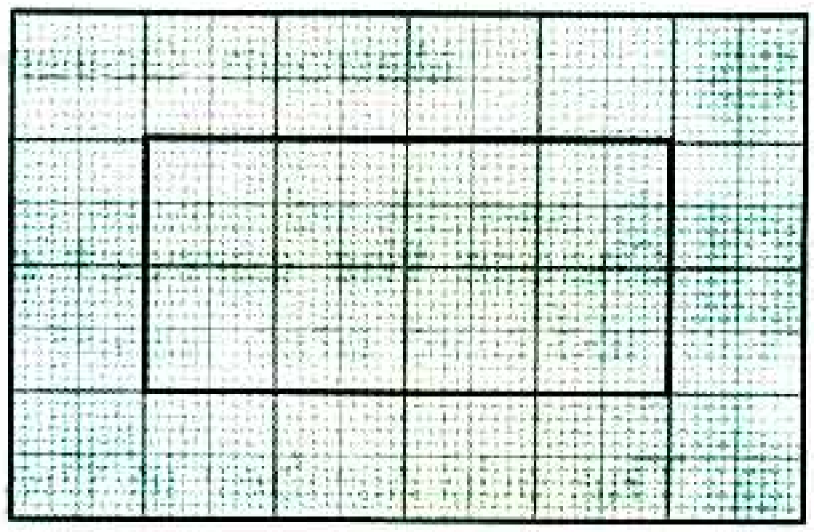
j The fraction which if we subtract $\frac{3}{7}$ from it, the result is $\frac{3}{7}$ is ....

[$\frac{6}{7}$ or $\frac{3}{7}$ or $\frac{2}{7}$ or $\frac{1}{7}$]

k 7 days = ... [year or month or week or hour]

l The perimeter of the opposite figure = ... units.

[11 or 12 or 14 or 13]



m The normal temperature of human body = ...

[37 days or 37 kg or 37 km or 37°C]

n The length of the playground is measured by ....

[hour or meter or gram or temperature]

o The probability of the appearance of the number 5 when throwing a fair die once = ...

[$\frac{1}{6}$ or $\frac{3}{6}$ or $\frac{2}{6}$ or $\frac{4}{6}$]

p An hour and half = ... minutes. [60 or 30 or 90 or 40]

q The freezing point of water ....

[100°C or 37°C or 50°C or zero°C]

r The whole one has .... fifths. [3 or 4 or 5 or 6]

s Raining tomorrow is a/an .... event.

[possible or certain or odd or impossible]

2 Complete the following:

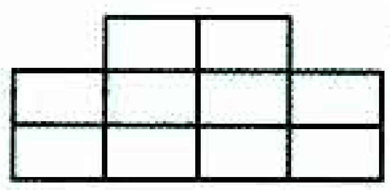
a Day = ... hours.

b The probability of the certain event = ...

c Two weeks = ... days.

d 5 , 10 , 15 , ... , ...

e The area of the opposite figure = ... □ .



f 54 ÷ .... = 9

g Tools which are used to measure the temperature are ....

3 Answer the following:

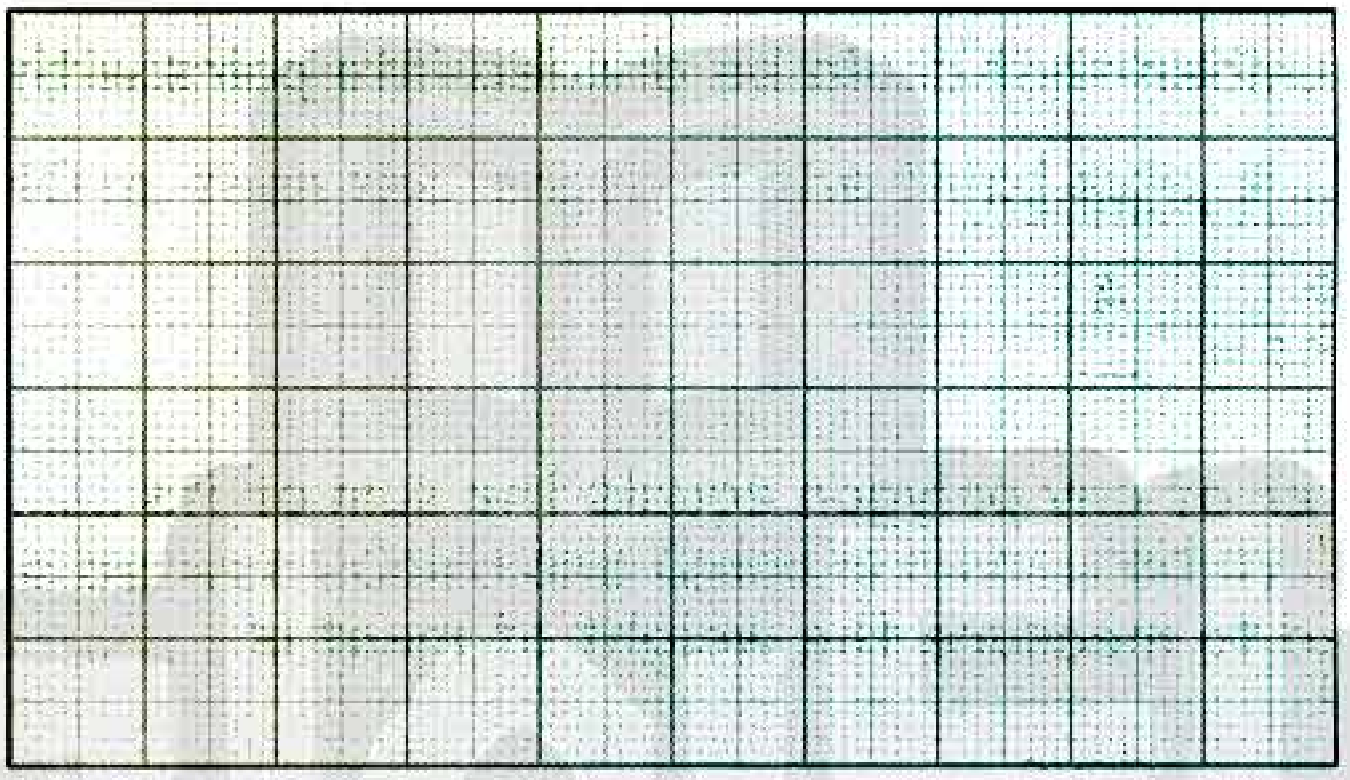
a Calculate the perimeter of the triangle whose side lengths are 10 cm, 8 cm and 6 cm. The perimeter of triangle = ... cm.

b Calculate the perimeter of the square whose side length = 5 cm.

The perimeter of the square = ...

c On the following lattice draw a figure with a perimeter of 12 length units.

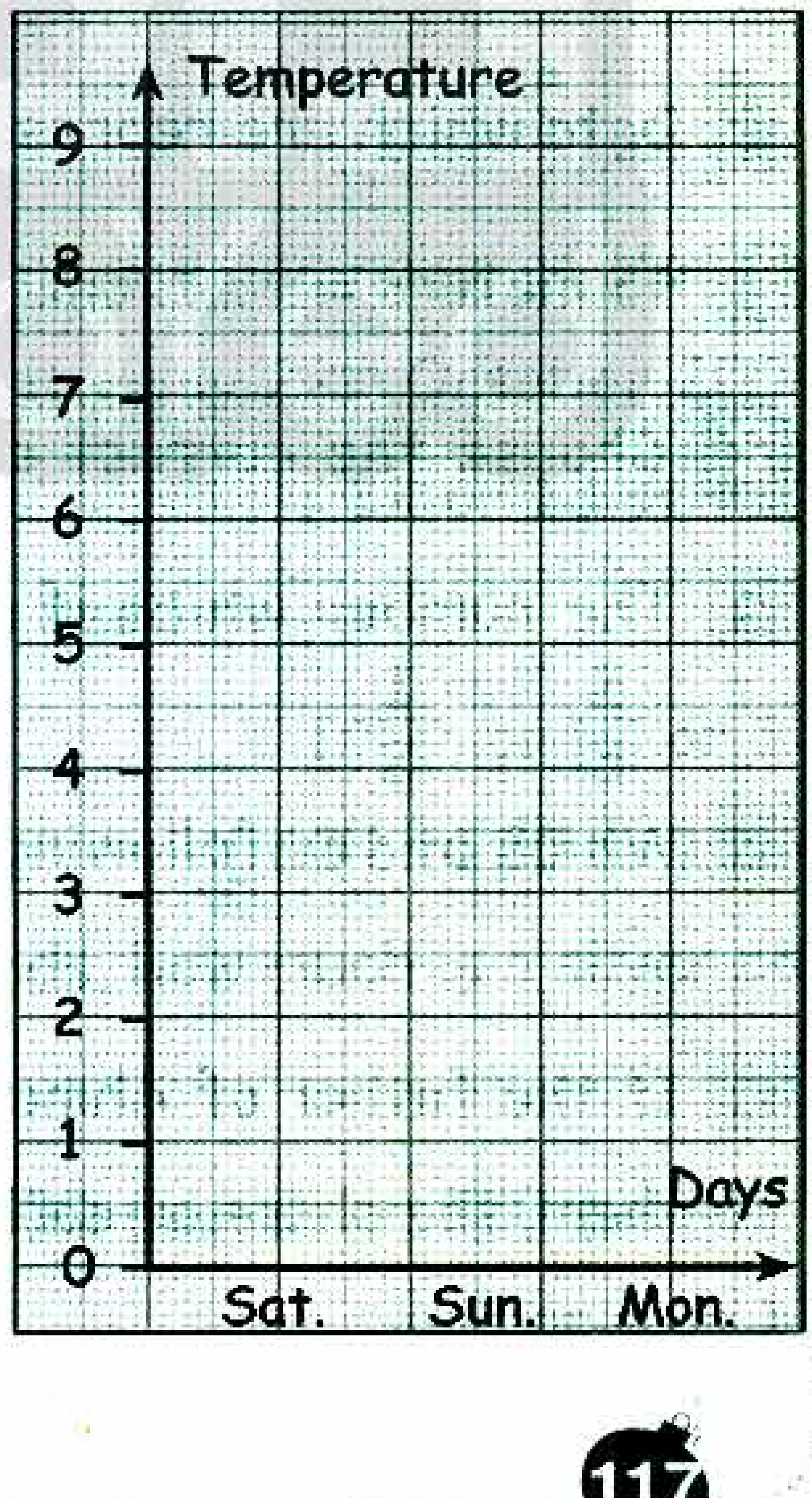
(Consider the length of small square as a length unit)



d The following table represents the lowest temperature in 3 consecutive days:

Day	Saturday	Sunday	Monday
Temperature	5	9	7

Represent these data by a broken line.



26 Qena Governorate - Qena Educational Directorate

1 Complete the following:

a If 6 × 3 = 18, then 18 ÷ 3 ....

b The temperature is usually measured by a unit called ....

c 480 ÷ 4 = ...

d The whole number that could be divided into pairs with no remainder is called an .... number.

e Four sevenths = $\frac{4}{....}$.

f The perimeter of any polygon equals the sum of its .... lengths.

g The unit used to measure the weight of meat is ....

h One week = ... days.

i Data which are represented with bar lines are ....

j 43 meters = ... cm.

2 Choose the correct answer:

a The number which if multiplied by 3 gives the product of 27 is .... [12 or 13 or 9]

b Which of the following is an even number: .... [3451 or 3541 or 3574]

c If the father of Ahmed and Mona distributed 248 pounds equally among them, the share of each one is ..... pounds. [124 or 142 or 496]

d It is .... that the sun rises from the east.

[**possible** or **certain** or **impossible**]

e .... is one of the units of measuring length. [**gm** or **m** or **min.**]

f A rectangle of length 8 cm and width 5 cm, then its perimeter = ... cm. [26 or 13 or 40]

g Deduce and complete: $\frac{1}{2} = \frac{2}{4} = \frac{5}{10} = \frac{....}{12}$. [5 or 6 or 7]

h A triangular piece of land with perimeter 200 m and the sum of two side lengths is 140 m, then the length of the third side is .... m.

[40 or 340 or 60]

i $\frac{4}{12} = \frac{....}{....}$. [$\frac{1}{4}$ or $\frac{1}{5}$ or $\frac{1}{3}$]

j The distance between Cairo and Qena is measured by ....

[**m** or **cm** or **km**]

k 30 hours = one day and .... hours. [5 or 6 or 7]

l $\frac{1}{7} + \frac{4}{7} =$ .... [1 or $\frac{5}{7}$ or $\frac{5}{14}$]

m The length of the period of time that starts at the beginning of Monday 15th October 2009 and ends at the end of Saturday 27th October 2009 is .... days. [12 or 13 or 15]

n If we flip a coin, the probability of getting a head = $\frac{....}{....}$

[$\frac{1}{2}$ or $\frac{2}{3}$ or 1]

o Two hours and a half = ... minutes. [60 or 120 or 150]

p If the price of a gram of silver is three pounds, how much is a silver pot that weighs 4 kg? ....

[**12000 pounds** or **1200 pounds** or **120 pounds**]

q $\frac{3}{5} < \frac{....}{5}$. [3 or 4 or 1]

r The perimeter of the square whose side length is 5 cm equals ..... cm.

[10 or 20 or 30]

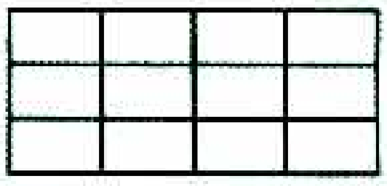
s The normal temperature degree of the human body is .... °.

[70 or 37 or 47]

t $1 - \frac{5}{8} =$ ....

[$\frac{3}{8}$ or $\frac{5}{8}$ or $\frac{3}{7}$]

u The area of the opposite figure = ... ▭



[10 or 8 or 12]

3 Answer the following:

a A box contains 4 red balls and 6 green balls. If a ball is drawn randomly, find:

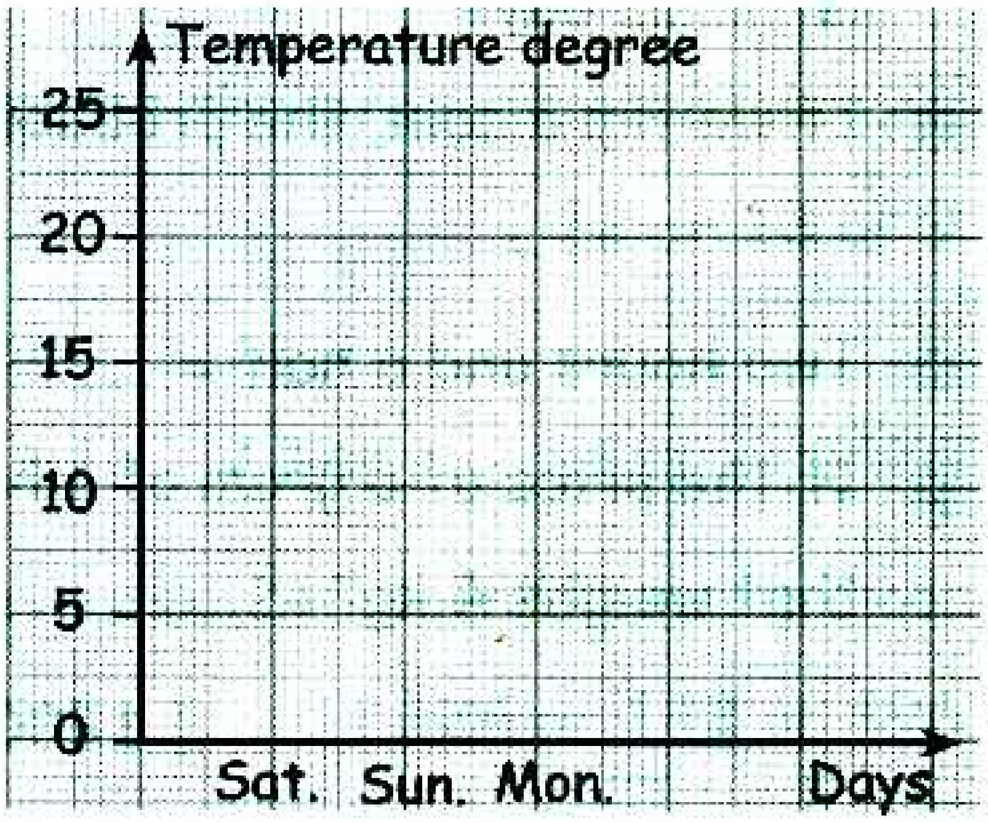
1) The probability of getting a red ball = ...

2) The probability of getting a green ball = ...

b The following table shows the maximum temperature of degrees in three consecutive days:

The day	Saturday	Sunday	Monday
Temperature degree	15	18	14

Represent these data by a broken line.



27 Sohag Governorate - Educational Directorate

1 Choose the correct answer from these between brackets:

a The normal temperature degree of the human body = ...

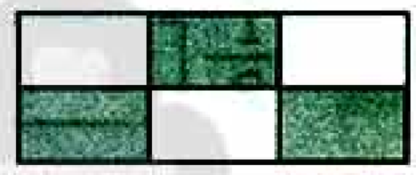
[70° or 37° or 47°]

b One day = ... hours. [24 or 60 or 7]

c .... is a unit of length. [**Gram** or **Kilogram** or **Meter**]

d The unit of measuring weight is .... [**kg** or **meter** or **km**]

e The fraction which represents the area of shaded parts with respect to the opposite figure represents: ....



[$\frac{1}{2}$ or $\frac{4}{5}$ or $\frac{2}{6}$]

f The event that the sun rises from the west is ....

[**impossible** or **certain** or **possible**]

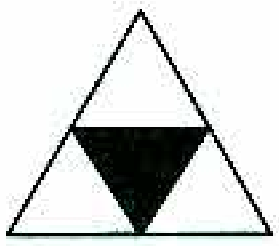
g The probability of the certain event = ... [$\frac{1}{2}$ or 1 or zero]

h The probability of the impossible event = ... [$\frac{1}{2}$ or 1 or zero]

i $\frac{1}{5}$ ☐ $\frac{1}{2}$ [> or = or <]

j 2 thirds = ... [$\frac{3}{2}$ or 2 or $\frac{2}{3}$]

k The fracton which represents the shaded part in relation to the whole shape is .... [$\frac{1}{4}$ or $\frac{1}{2}$ or $\frac{3}{4}$]



l 3 kg = ... gm. [300 or 30 or 3000]

m A square of perimeter 16 cm, then its side length = ... cm.

[6 or 5 or 4]

n The perimeter of the square whose side length is 5 cm = ... cm.

[10 or 20 or 25]

o When tossing a metallic coin once, then the probability of the appearance of a tail is .... [0 or $\frac{1}{2}$ or 1]

p The perimeter of an equilateral triangle is 18 cm, then its side length = ... cm. [9 or 12 or 6]

q .... is from the odd numbers. [12 or 14 or 15]

r $\frac{3}{4}$ + ... = 1. [$\frac{1}{4}$ or 1 or $\frac{2}{4}$]

s 3009 ÷ 3 = ... [3001 or 1003 or 3003]

t $\frac{1}{2}$ ☐ $\frac{1}{3}$. [$>$ or $=$ or $<$]

u 1 ☐ $\frac{7}{7}$. [$>$ or $=$ or $<$]

2 Complete:

a $\frac{1}{7} + \frac{4}{7}$ = ...

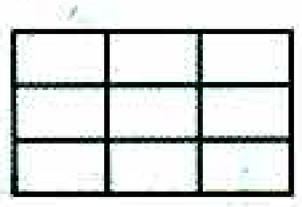
b $\frac{5}{8} - \frac{3}{8}$ = ...

c 4008 ÷ 4 = ...

d One year = ... months.

e From the opposite figure, complete:

The area of this figure = ... ☐



f The perimeter of this figure = ... units.

g $1 - \frac{7}{8}$ = ...

h $\frac{3}{4}$ ☐ 1

i 5350 meters = ... kilometers + 350 meters.

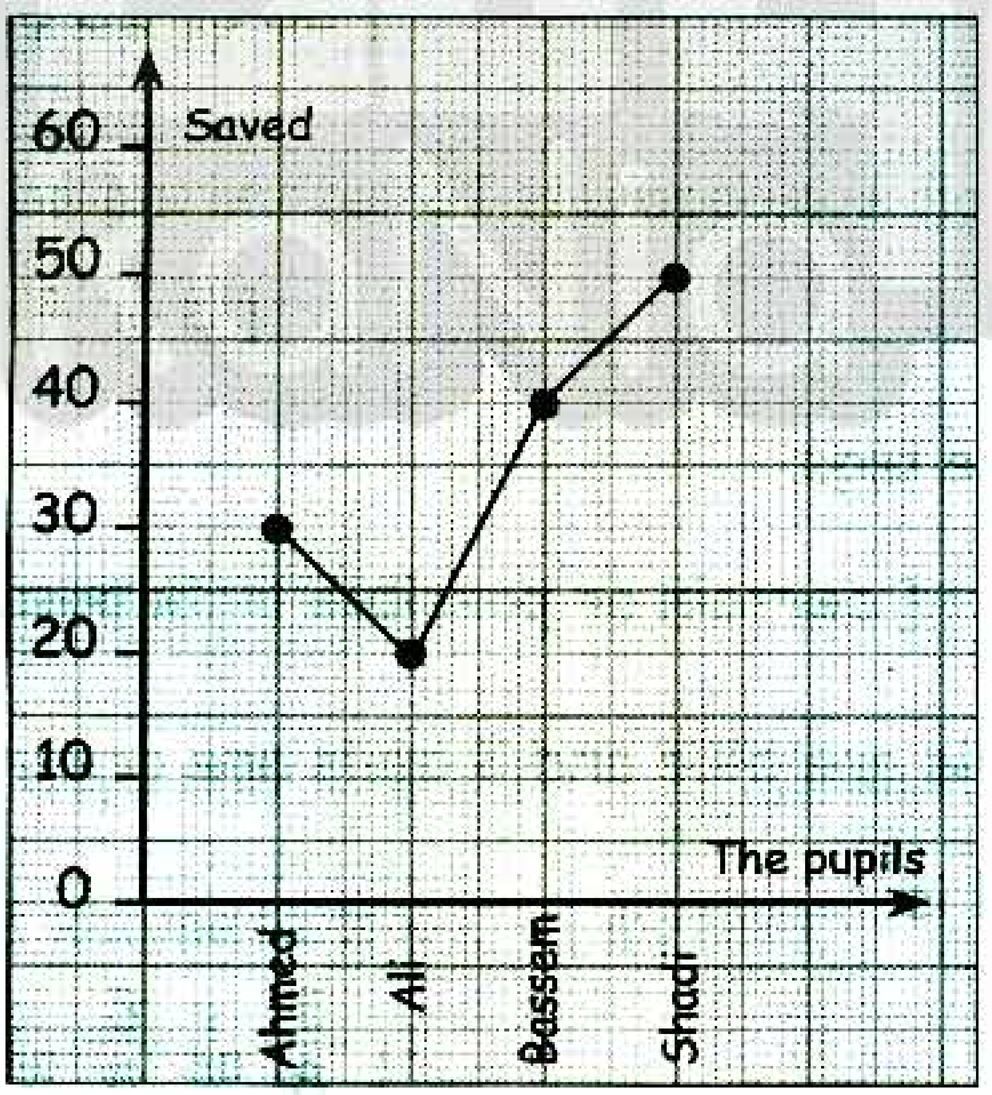
j One day and 2 hours = ... hours.

3 Complete:

Hany's father distributed 303 pounds among his three sons. What is the share of each of them?

The share of each son = ... ÷ .... = ... pounds.

4 From the graph complete the table:



The pupil	What he saved
Ahmed	....
Ali	....
Bassem	....
Shadi	....

28 Aswan Governorate - Aswan Notre Dame Schools (Arabic-English)

1 Choose the correct answer:

a The even number is .... [469 or 752 or 61]

b The odd number is .... [612 or 739 or 118]

c 50 meters = ... cm. [5000 or 500 or 50]

d A square of side length 5 cm, its perimeter = ... cm.

[20 or 15 or 30]

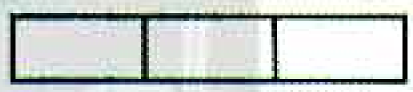
e Four fifths = ... [$\frac{4}{5}$ or $\frac{5}{4}$ or $\frac{5}{5}$]

f The unit used to measure temperature is ....

[Celsius degree or cm or kg]

g 5 weeks = ... days. [30 or 15 or 35]

h The area of the opposite figure = ...



[3 or 4 or 5]

i It's .... to find a man with three legs.

[certain or possible or impossible]

j A box contains 8 balls where 5 balls are blue and 3 balls are green. The probability of drawing a green ball is ....

[$\frac{3}{8}$ or $\frac{8}{8}$ or $\frac{5}{8}$]

k $\frac{3}{5} = \frac{....}{20}$ [18 or 12 or 15]

l The normal temperature of human body is ...... °. [**35** or **36** or **37**]

m 2 kilograms ☐ 200 grams. [**<** or **>** or **=**]

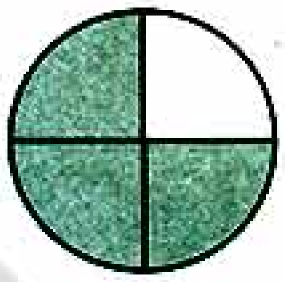
n A triangle with side lengths 4 cm, 5 cm and 7 cm. Its perimeter = ... cm. [**10** or **15** or **16**]

o It's .... that the moon is in the sky.

[**certain** or **possible** or **impossible**]

p 2 years = ... months. [**24** or **48** or **30**]

q The fraction of the colored part = ...

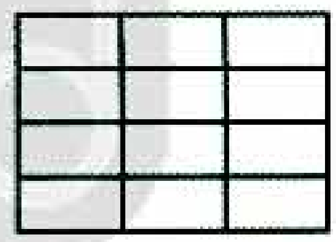


[$\frac{2}{4}$ or $\frac{3}{4}$ or $\frac{1}{3}$]

r $\frac{4}{12} = \frac{1}{....}$ [**5** or **3** or **6**]

s $\frac{6}{17} - \frac{3}{17} = \frac{....}{....}$ [$\frac{9}{17}$ or $\frac{6}{17}$ or $\frac{3}{17}$]

t The perimeter of the opposite figure = ... ☐.



[12 or 14 or 16]

2 Complete:

a 2 days and 6 hours = ... hours.

b 18 kilometers = ... meters.

c $\frac{2}{7} + \frac{3}{7} =$ ....

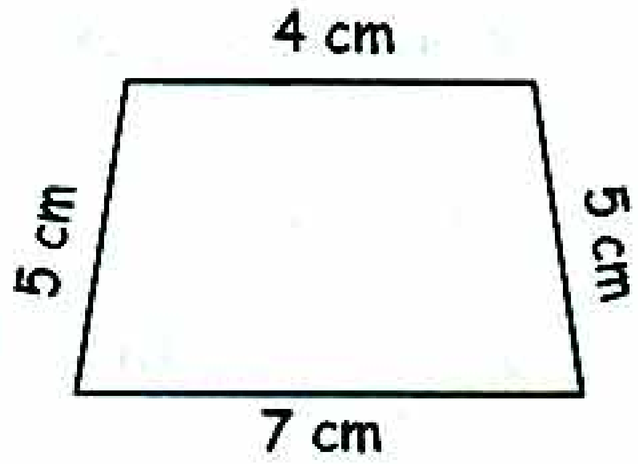
d 3 hours = ... minutes.

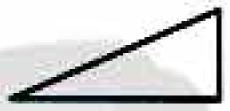
e 23000 grams = ... kilograms.

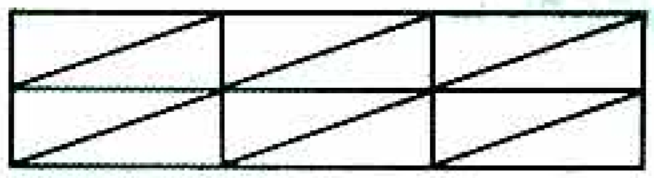
f The month that has 28 days is ....

g The perimeter of this figure

= .... cm.



h The area of this rectangle = ...  .



i Arrange in ascending order: $\frac{1}{12}$, $\frac{9}{12}$, $\frac{5}{12}$, $\frac{2}{12}$

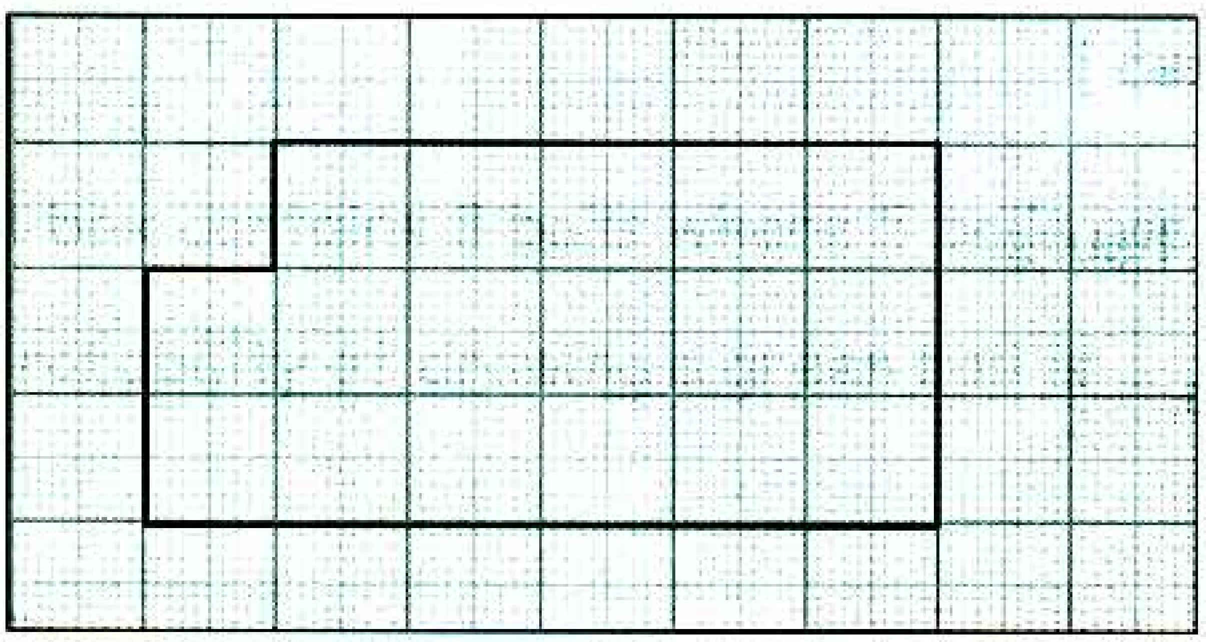
Ascendingly: .... , ... , ... , ...

j Find the perimeter of this rectangle.

The perimeter = ... cm.



k Find the perimeter and area of the following shape.



The perimeter = ...

The area = ...

1 The following table shows the temperature in 4 days.

Day	Sunday	Monday	Tuesday	Wednesday
Temperature	30	40	35	35

Represent these data with a broken line.

